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Forest Statistics for Florida, 1987

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Southeastern Forest
Experiment Station

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Southeastern Forest Experiment Station
P.O. Box 2680
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Forest Statistics for Florida, 1987

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Forest Inventory and Analysis
Asheville, North Carolina

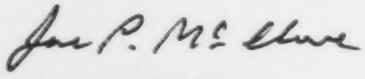
Foreword

This report highlights the principal findings of the sixth forest survey in Florida. Field work began in September 1986 and was completed in October 1987. Five previous surveys, completed in 1936, 1949, 1959, 1970, and 1980, provide statistics for measuring changes and trends over the past 51 years. The primary emphasis in this report is on the changes and trends since 1980. Previously reported figures have been adjusted to provide the best estimate of change.

Periodic surveys of the forest resource are authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. These surveys are a continuing, nationwide undertaking by the Regional Experiment Stations of the USDA Forest Service. In Florida, Georgia, North Carolina, South Carolina, and Virginia, these surveys are administered by the Forest Inventory and Analysis (Forest Survey) Research Unit at the Southeastern Forest Experiment Station, with headquarters in Asheville, NC. The primary objective of the survey is to periodically inventory and evaluate all forest and related resources. These multiresource data help provide a basis for formulating forest policies and programs and for the orderly development and use of the resources. This report deals only with the extent and condition of forest land, associated timber volumes, and rates of timber growth and removals.

Reports have been issued for the Northwest, Northeast, and Central Survey Units in Florida as USDA Forest Service Resource Bulletins SE-96, SE-97, and SE-99. A similar report for South Florida, SE-100, is being released with this report. An indepth analytical report for the State should be avaliable in late 1988.

The Southeastern Station gratefully acknowledges the cooperation and assistance provided by the Florida Division of Forestry, Department of Agriculture and Consumer Services in collecting field data. Appreciation is also expressed for the excellent cooperation of other public agencies, forest industry, and other private landowners in providing information and access to the sample locations.



JOE P. McCLURE
Project Leader

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Since the fifth inventory of Florida's forest resources was completed in 1980--

• area of timberland decreased almost 682,000 acres, or by more than 4 percent. Timberland in Florida now totals less than 15.0 million acres, or 43 percent of the total land area. Timberland decreased in each Survey Unit. Almost 1.3 million acres were diverted to some other land use, while another 609,000 acres were added to the timberland base. Almost 55 percent of the diversions went to urban and related land uses, 25 percent to agriculture, and 20 percent to a reserved timberland status.

• area of nonindustrial private forest (NIPF) land decreased 12 percent to 7.1 million acres. Farmer-owned NIPF timberland declined nearly 43 percent to 1.1 million acres. Timberland owned by corporations (excluding forest industry) declined 15 percent, while that owned by other individuals increased 9 percent. Timberland owned or leased by forest industry remained about the same at 5.4 million acres. Public timberland rose 12 percent to 2.4 million acres, primarily due to increases in State-owned timberland.

• area in pine plantations has increased 23 percent to more than 4.0 million acres. Pine plantations account for 27 percent of Florida's timberland, the highest proportion of any State in the Southeast. The area in natural pine stands is down 22 percent to 3.5 million acres. All three broad management classes of pine, oak-pine, and hardwood decreased in area. Of the 7.5 million acres classed as pine forest types, slash pine decreased 2 percent to 5.2 million acres. Loblolly pine increased 40 percent to almost 0.6 million acres, and sand pine was up 14 percent to 0.6 million acres. Longleaf pine declined 23 percent to 951,000 acres, and pond pine fell 32 percent to 158,000 acres. Oak-pine forest type declined 15 percent to 1.2 million acres. Of the 6.2 million acres classed as hardwood forest types, oak-hickory was down 7 percent to less than 1.1 million acres, whereas oak-gum-cypress changed little at 4.3 million acres. Scrub oak dropped by 17 percent to 0.8 million acres.

• area receiving a final harvest and retained in timberland averaged 296,000 acres annually. Pine plantations accounted for 32 percent of the final harvest area, and natural pine stands accounted for 45 percent. About 7 percent came from oak-pine stands and 16 percent from hardwoods. Lands controlled by forest industry accounted for 54 percent of the area receiving a final harvest. About 36 percent of the final harvest occurred on NIPF lands; the remainder took place on public lands. Selective cutting and thinning occurred on an average of almost 83,000 acres each year. Natural agents such as fire, weather, insects, and diseases damaged an average of 113,000 acres annually.

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• area of timberland regenerated both artificially and naturally averaged 272,000 acres annually. Artificial methods of regeneration accounted for more than 196,000 acres of this total, up 52 percent from that in 1980. About 60 percent of the artificial regeneration took place on areas controlled by forest industry, 32 percent on NIPF land, and 8 percent on public land. Although artificial regeneration increased across all major ownerships, it more than tripled on NIPF lands. About 40 percent of NIPF artificial regeneration occurred on previously nonforest land. New pine stands were established on 219,000 acres--equivalent to 97 percent of the area of pine stands harvested.

• average basal area of live trees 5.0 inches d.b.h. and larger increased from 53 to 55 square feet per acre. Net volume per acre averaged 1,120 cubic feet. The average number of saplings per acre decreased from 404 to 375 trees. Numbers of softwood trees decreased in all diameters below 14 inches, and hardwoods declined in all diameters less than 12 inches. Softwood declines were greatest in the 4-inch diameter class, whereas hardwood trees declined most in the 2-inch class. Stands classified as fully stocked increased by more than 5 percent; medium-stocked stands decreased nearly 3 percent. Poorly stocked and nonstocked areas declined by 12 percent, but they still comprise almost 37 percent of Florida's timberland.

• volume of softwood growing stock changed little, increasing 1 percent to 9.3 billion cubic feet. The inventory for yellow pine decreased more than 2 percent to 6.5 billion cubic feet, while that of other softwoods increased more than 10 percent to nearly 2.8 billion cubic feet. Softwood volume rose 15 percent on public lands to 2.0 billion cubic feet, and by 4 percent on forest industry land to 3.1 billion cubic feet. It decreased 7 percent on NIPF properties to 4.2 billion cubic feet. About 22 percent of the softwood volume is located in pine plantations. Slash pine, relatively unchanged at 4.0 billion cubic feet, remains the predominant species. Cypress species contain nearly 2.7 billion cubic feet, up by 10 percent. Longleaf pine declined more than 19 percent to less than 1.2 billion cubic feet. Loblolly pine increased 8 percent to 675 million cubic feet, and sand pine volume increased 23 percent to nearly 426 million cubic feet. Softwood volume was up in all diameter classes 14 inches and greater. Volume of softwood sawtimber increased more than 6 percent to 28.4 billion board feet.

• volume of hardwood growing stock increased 11 percent to almost 5.7 billion cubic feet. Inventory of hardwoods on public lands nearly doubled to 1.0 billion cubic feet as a result of increased State ownership of wetlands and reclassification of some reserved timberland. Hardwood volume is down 3 percent to less than 1.6 billion cubic feet on areas controlled by forest industry, and up 5 percent to 3.1 billion cubic feet on NIPF lands. Collectively, oaks accounted for nearly 1.7 billion cubic feet, up 10 percent. Tupelo and blackgum volume rose more than 8 percent to 1.5 billion cubic feet. Bay and magnolia species increased 22 percent to 765 million cubic feet. Sweetgum was up 11 percent to 528 million cubic feet, and soft maple increased 9 percent to 412 million cubic feet. Hardwood volume increased in all diameters except the 14-inch class. Volume of hardwood sawtimber rose more than 16 percent to 16.5 billion board feet.

• net annual growth of growing stock averaged 628 million cubic feet, down 20 percent since the last survey. Net growth per acre averaged 42 cubic feet, down 16 percent from more than 50 cubic feet. Softwood growth declined almost 20 percent to less than 488 million cubic feet. About 51 percent of current softwood growth occurred on pine plantations. Almost 47 percent of softwood growth occurred on forest industry lands. Softwood growth was down across all major ownership categories. On forest industry land, softwood growth declined by 9 percent. On public and NIPF lands, it was down 23 and 28 percent, respectively. Hardwood growth was down 22 percent to 141 million cubic feet. About 58 percent

of hardwood growth took place on NIPF lands. Hardwood growth increased 28 percent on public land, but decreased 34 percent on forest industry and by 22 percent on NIPF ownerships. Altogether, net annual growth of growing stock includes nearly 2.0 billion board feet of sawtimber, down 2 percent.

• annual removals of growing stock remained fairly stable overall at nearly 541 million cubic feet. Softwood removals, however, increased almost 5 percent to 474 million cubic feet, accounting for 88 percent of all removals. Hardwood removals decreased almost 25 percent to more than 66 million cubic feet. Pine plantations now provide about 40 percent of the annual softwood removals. Almost 47 percent of the softwood removals were from forest industry lands, 43 percent from NIPF, and 10 percent from public lands. Nearly 47 percent of the softwood removed came from the 8- and 10-inch diameter classes. Half of the hardwood removals came from NIPF lands, 48 percent from industry, and less than 2 percent from public ownerships. Annual removals of yellow pine exceeded their net growth by 3 percent. Hardwood removals totaled less than one-half of their growth. Total annual removals of growing stock included more than 1.4 billion board feet of sawtimber.

• annual mortality of growing stock averaged 122 million cubic feet, up 16 percent. Although softwoods and hardwoods each accounted for about half of the mortality, the percentage of losses were greater for hardwoods than for softwoods. Softwood mortality increased just over 2 percent, whereas hardwood mortality was up 35 percent. The leading identifiable cause of death to softwoods was fire, followed by insects. Causes of hardwood mortality were less distinguishable, with weather being the most prominent. Softwood mortality increased on public and NIPF lands but decreased about 20 percent on forest industry lands. Hardwood mortality increased on all major ownerships. Altogether, annual mortality of growing stock included 376 million board feet of sawtimber. Mortality reduced gross growth of softwoods by 11 percent and gross growth of hardwoods by 30 percent.

How the Inventory is Made

The method of the inventory is a sampling procedure designed to provide reliable statistics primarily at the State and Survey Unit levels. Individual county statistics are presented so that any combination of counties may be added together until a total is large enough to meet the desired degree of reliability. Procedures were as follows:

1. In the Northwest, Northeast, and Central Units, initial estimates of forest and nonforest areas were based on the classification of 90,378 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 10,746 of the 16-point clusters was ground checked, and a linear regression was fitted to the data to develop the relationship between the photo and ground classification of the subsample. This procedure provides a means for adjusting the initial estimates of area for change in land use since date of photography and for photo misclassifications. In the South Florida Unit a different method of land use classification was employed. There, estimates of forest and nonforest areas were determined from direct aerial observations along 27 east-west flight lines spaced at 5-mile intervals. The flight lines were selected systematically from random start and flown perpendicularly to the direction of primary drainage. From an altitude of 500 feet above the ground, observers classified the land use at 28,299 sample points along the flight lines. An interval timer was used to locate the sample points. This direct aerial method was not used in the Keys because of their unique geographical layout. In the Keys, gross area estimates were made by planimeter of the U.S. Geological Survey boundaries as transferred from maps onto aerial photographs. The breakdown of gross acreage into detailed land use was based upon the ground classification of 45 sample locations.

2. Estimates of timber volume and forest classifications were based on measurements recorded at 5,487 ground sample locations systematically distributed on timberland. The plot design at each location was based on a cluster of 10 points. In most cases, variable plots, established by using a basal-area factor of 37.5 square feet per acre, were systematically spaced within a single forest condition at 5 of the 10 cluster points. Trees less than 5 inches d.b.h. were tallied on a fixed-radius plot around each point center.

3. Equations prepared from detailed measurements collected on standing trees in this Survey Unit, and similar measurements taken throughout the Southeast, were used to compute the volume of individual tally trees. A mirror caliper and sectional aluminum poles were used to obtain the additional measurements on these standing trees required to construct volume equations.

4. Felled trees were measured at 100 active cutting operations. These data will supplement the standing-tree volume data and be used to generate utilization factors for product and species groups. Forest biomass estimates were made from equations developed by the Utilization of Southern Timber Research Work Unit of the Southeastern Forest Experiment Station in Athens, GA.

5. Estimates of growth, removals, and mortality were determined from the remeasurement of 4,803 permanent sample plots established in the fourth survey.

6. Ownership information was collected from correspondence, public records, and local contacts. In those counties where the sample missed a particular ownership class, temporary sample plots were added.

7. All field data were sent to Asheville for editing and were entered into disk and magnetic-tape storage for processing. Final estimates were based on statistical summaries of the data.

Reliability of the Data

Statistical analysis of these data indicates the following sampling errors in terms of one standard error (two times out of three):

	Percent
Per million acres of timberland	1.63
Per billion cubic feet of growing stock	6.54
Per billion cubic feet of net annual growth	1.32
Per billion cubic feet of annual removals	2.84

Sampling errors for county and unit totals,[a] in terms of one standard error, Florida, 1987

County	Timberland area	Cubic-foot volume of growing stock		
		Inventory	Growth	Removals
	Sampling error[b]			
Alachua	2.32	11.34	11.37	28.08
Baker	.88	10.43	10.23	23.53
Bay	1.37	13.45	10.75	17.57
Bradford	2.35	20.31	20.32	30.08
Brevard	6.32	18.59	21.68	37.94
Broward	0.00	0.00	0.00	0.00
Calhoun	1.47	11.50	11.94	24.88
Charlotte	6.91	31.52	29.60	56.83
Citrus	2.74	15.87	16.23	38.93
Clay	2.31	11.73	11.09	27.64
Collier	11.19	17.48	17.95	57.73
Columbia	2.03	9.35	10.30	19.45
Dade	0.00	0.00	0.00	0.00
De Soto	7.62	27.93	24.84	100.29
Dixie	.87	9.35	9.11	19.61
Duval	2.60	12.71	12.29	21.48
Escambia	2.50	12.10	9.47	23.71
Flagler	1.59	11.93	10.15	29.11
Franklin	1.17	15.27	12.53	30.89
Gadsden	1.83	13.60	11.86	27.42
Gilchrist	3.30	22.67	21.30	25.05
Glades	16.41	32.33	29.46	102.21
Gulf	1.27	16.40	13.05	32.80
Hamilton	2.37	12.50	11.44	27.31
Hardee	4.98	21.31	19.47	48.13
Hendry	15.71	30.9[illegible]	27.01	55.11
Hernando	3.56	14.59	13.11	48.95
Highlands	7.33	23.96	21.43	55.31
Hillsborough	5.51	18.51	16.53	52.75
Holmes	2.43	13.83	15.62	30.75
Indian River	11.91	35.29	33.64	.00
Jackson	2.69	10.58	10.47	26.03
Jefferson	1.76	10.47	9.28	23.06
Lafayette	1.85	10.43	12.80	26.90
Lake	2.92	11.33	10.94	39.02
Lee	15.88	35.71	28.95	82.37
Leon	1.93	9.17	9.35	26.03
Levy	1.63	9.48	9.81	22.22
Liberty	.40	8.39	8.61	20.63
Madison	2.02	12.27	11.47	30.82
Manatee	9.53	30.36	25.17	55.45
Marion	1.70	8.15	7.95	17.93
Martin	20.22	38.47	41.85	103.22
Monroe	0.00	0.00	0.00	0.00
Nassau	1.32	9.93	10.98	21.97

Continued

Sampling errors for county and unit totals,[a] in terms of one standard error, Florida, 1987--Continued

County	Timberland area	Cubic-foot volume of growing stock		
		Inventory	Growth	Removals
	Sampling error[b]			
Okaloosa	1.67	8.56	9.36	27.89
Okeechobee	10.34	22.77	20.25	.00
Orange	4.37	14.28	14.10	30.51
Osceola	4.16	11.85	11.76	71.56
Palm Beach	0.00	0.00	0.00	0.00
Pasco	4.03	14.11	12.99	49.71
Pinellas	20.51	34.51	37.82	77.33
Polk	3.88	12.50	11.65	30.98
Putnam	1.95	13.38	10.21	20.13
Santa Rosa	1.69	7.62	7.29	17.72
Sarasota	9.01	21.89	28.28	61.93
Seminole	5.82	23.22	21.24	42.60
St. Johns	2.24	10.79	10.63	22.81
St. Lucie	14.24	25.75	36.53	56.39
Sumter	2.99	14.52	12.13	43.14
Suwannee	3.20	15.99	14.22	26.02
Taylor	.75	9.11	8.72	15.43
Union	3.17	17.54	17.43	29.48
Volusia	1.81	8.22	8.88	24.96
Wakulla	1.38	11.09	11.02	26.95
Walton	1.56	8.93	8.27	19.88
Washington	1.64	14.77	12.57	28.94
Total	.42	1.69	1.66	3.86

[a]Sampling error of breakdowns of county and State totals may be computed with the following formula:

$$E = \frac{(SE)\ \sqrt{(\text{Specified volume or area})}}{\sqrt{(\text{Volume or area total in question})}}$$

Where: E = Sampling error of the volume or area total in question

SE = Specified sampling error in table.

[b]By random-sampling formula (in percent).

Definitions of Terms

Allowable cut. The volume of timber that could be cut on timberland during a given period under specified management plans aimed at sustained production of timber products.

Basal area. The area in square feet of the cross section at breast height of a single tree or of all the trees in a stand, usually expressed as square feet of basal area per acre.

Biomass. The aboveground green weight of solid wood and bark in live trees 1.0 inch d.b.h. and larger from the ground to the tip of the tree. All foliage is excluded. The weight of wood and bark in lateral limbs, secondary limbs, and twigs under 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber and sawtimber-size trees.

Bole. That portion of a tree between a 1-foot stump and a 4-inch top diameter outside bark (d.o.b.) in trees 5.0 inches d.b.h. and larger.

Broad management class. A classification of timberland based on forest type and stand origin.

Pine plantation. Stands that have been artificially regenerated by planting or direct seeding and with a southern yellow pine, white pine-hemlock, or other softwood forest type.

Natural pine. Stands that have not been artificially regenerated and with a southern yellow pine, white pine-hemlock, or other softwood forest type.

Oak-pine. Stands with a forest type of oak-pine.

Upland hardwood. Stands with a forest type of oak-hickory, chestnut oak, southern scrub oak, or maple-beech-birch.

Lowland hardwood. Stands with a forest type of oak-gum-cypress, elm-ash-cottonwood, palm, or other tropical.

Bureau of Land Management lands. Federal lands administered by the Bureau of Land Management.

Census water. Streams, sloughs, estuaries, canals, and other moving bodies of water one-eighth of a statute mile in width and greater, and lakes, reservoirs, ponds, and other permanent bodies of water 40 acres in area and greater.

Commercial forest land. (see: Timberland).

Commercial species. Tree species conventionally regarded as being able to develop into trees suitable for the manufacture of industrial timber products. Species that typically exhibit small size, poor form, or inferior quality are excluded.

Cropland. Land under cultivation within the past 24 months, including orchards and land in soil-improving crops but excluding land cultivated in developing improved pasture. Also includes idle farmland.

D.b.h. Tree diameter (outside bark) at breast height (4.5 feet above the ground).

Diameter class. A classification of trees based on tree d.b.h. Two-inch diameter classes are commonly used by Forest Inventory and Analysis, with the even inch as the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0 through 6.9 inches d.b.h.

Farm. Land on which agricultural operations are being conducted and sale of agricultural products totaled $1,000 or more during the year.

Farm operator. A person who operates a farm, either doing the work or directly supervising the work.

Farmer-owned land (see: Other private land).

Forest industry land. Land owned by companies or individuals operating wood-using plants.

Forest industry-leased land. Land leased or under management contracts to forest industry from other owners for periods of one forest rotation or longer. Land under cutting contracts is not included.

Forest land. Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use.

Forest type. A classification of forest land based on the species forming a plurality of live-tree stocking.

White pine-hemlock. Forests in which eastern white pine, red pine, or jack pine, singly or in combination, constitute a plurality of the stocking. (Common associates include hemlock, birch, and maple.)

Spruce-fir. Forests in which spruce or true firs, singly or in combination, constitute a plurality of the stocking. (Common associates include maple, birch, and hemlock.)

Longleaf-slash pine. Forests in which longleaf or slash pine, singly or in combination, constitute a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Loblolly-shortleaf pine. Forests in which loblolly pine, shortleaf pine, or other southern yellow pines, except longleaf or slash pine, singly or in combination, constitute a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Oak-pine. Forests in which hardwoods (usually upland oaks) constitute a plurality of the stocking but in which pines account for 25 to 50 percent of the stocking. (Common associates include gum, hickory, and yellow-poplar.)

Oak-hickory. Forests in which upland oaks or hickory, singly or in combination, constitute a plurality of the stocking, except where pines account for 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include yellow-poplar, elm, maple, and black walnut.)

Oak-gum-cypress. Bottom-land forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, constitute a plurality of the stocking, except where pines account for 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include cottonwood, willow, ash, elm, hackberry, and maple.)

Elm-ash-cottonwood. Forests in which elm, ash, or cottonwood, singly or in combination, constitute a plurality of the stocking. (Common associates include willow, sycamore, beech, and maple.)

Maple-beech-birch. Forests in which maple, beech, or yellow birch, singly or in combination, constitute a plurality of the stocking. (Common associates include hemlock, elm, basswood, and white pine.)

Palm, other tropical. Forests in which palms and other tropicals constitute a plurality of the stocking.

Gross growth. Annual increase in merchantable volume of trees in the absence of cutting and mortality. (Gross growth includes survivor growth, ingrowth, growth on ingrowth, growth on removals prior to removal, and growth on mortality prior to death.)

Growing-stock trees. Live sawtimber-size trees of commercial species containing at least a 12-foot log, or two noncontiguous saw logs each 8 feet or longer, meeting minimum grade requirements (hardwoods must qualify as a log grade of either 3 or 4; softwoods must qualify as a log grade 3) with at least one-third of the gross board-foot volume (International 1/4-inch rule) between a 1-foot stump and the minimum saw-log top being sound, or a live tree below sawtimber size that will prospectively qualify under the above standards.

Desirable tree. A tree that qualifies as growing stock and has no serious defects in quality limiting present or prospective use; is of relatively high vigor (30 percent or more live crown ratio); is compatible with the site and

physiographic class; has a total board-foot loss not to exceed 15 percent in softwoods or 25 percent in hardwoods as a result of severe sweep, crook, or lean; and has a relatively clear bole.

Acceptable tree. A tree that qualifies as growing stock but does not meet the minimum requirements to qualify as a desirable tree. Included are sawtimber-size trees that do not contain a 12-foot saw log because of excessive, natural taper in the butt log but have the potential to produce a 12-foot saw log as diameter increases.

Growing-stock volume. Volume (cubic feet) of solid wood in growing-stock trees 5.0 inches d.b.h. and larger, from a 1-foot stump to a minimum 4.0-inch top diameter, outside bark, on the central stem. Volume of solid wood in primary forks from the point of occurrence to a minimum 4.0-inch top diameter outside bark is included.

Hardwoods. Angiosperms; dicotyledonous trees (including all palm species which are monocotyledonous), usually broadleaf and deciduous.

Soft hardwoods. Soft-textured hardwoods such as boxelder, red and silver maples, hackberry, loblolly-bay, sweetgum, yellow-poplar, magnolia, sweetbay, water tupelo, blackgum, sycamore, cottonwood, black cherry, willow, basswood, and elm.

Hard hardwoods. Hard-textured hardwoods such as sugar maple, birch, hickory, dogwood, persimmon (forest grown), black locust, beech, ash, honeylocust, holly, black walnut, mulberry, and all commercial oaks.

Idle farmland. Land including former cropland, orchard, improved pasture, and farm sites not tended within the past 2 years, and currently less than 16.7 percent stocked with live trees.

Improved pasture. Land currently improved for grazing by cultivation, seeding, irrigation, or clearing of trees or brush.

Indian land. All lands held in trust by the United States for individual Indians or tribes, or all lands, titles to which are held by individual Indians or tribes, subject to Federal restrictions against alienation.

Industrial wood. All roundwood products except fuelwood.

Ingrowth. The number or net volume of trees that grow large enough during a specified year to qualify as saplings, poletimber, or sawtimber.

Inhibiting vegetation. Cover sufficiently dense to prevent the establishment of tree seedlings.

Land area. The area of dry land and land temporarily or partly covered by water such as marshes, swamps, and river floodplains (omitting tidal flats below mean high tide), streams, sloughs, estuaries, and canals less than one-eighth of a statute mile in width, and lakes, reservoirs, and ponds less than 40 acres in area.

Live trees. All trees 1.0 inch d.b.h. and larger which are not dead at the time of inventory.

Live-tree volume. Volume (cubic feet) of wood above the ground line in live trees 1.0 inch d.b.h. and larger. The volume in twigs and lateral limbs smaller than 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber and sawtimber-size trees.

Log grade. A classification of logs based on external characteristics as indicators of quality or value.

Logging residues. The unused merchantable portion of growing-stock trees cut or destroyed during logging operations.

Logging slash. The unmerchantable portion of growing-stock trees (including saplings) plus all cull trees 1.0 inch d.b.h. and larger cut or destroyed during logging operations and not used.

Manageable stand. Timberland at least 60 percent stocked with growing-stock trees that can be favored together under a management scheme.

Merchantable portion. That portion of live trees 5.0 inches d.b.h. and larger between a 1-foot stump and a minimum 4.0-inch top diameter outside bark on the central stem. That portion of primary forks from the point of occurrence to a minimum 4.0-inch top diameter outside bark is included.

Merchantable volume. Solid-wood volume in merchantable portion of live trees.

Miscellaneous Federal land. Federal land other than national forests, land administered by the Bureau of Land Management, and land administered by the Bureau of Indian Affairs.

Miscellaneous private land. (see: Other private land).

Mortality. The merchantable volume in trees that have died from natural causes during a specified period.

National forest land. Federal land that has been legally designated as national forests or purchase units, and other land under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III land.

Net annual growth. The net change in merchantable volume for a specific year in the absence of cutting (gross growth minus mortality for that specified year).

Net volume. Gross volume of wood less deductions for rot, sweep, or other defect affecting use for timber products.

Noncommercial species. Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Nonforest land. Land that has never supported forests and land formerly forested where timber production is precluded by development for other uses.

Nonindustrial private forest (NIPF) land. (see: Other private land).

Nonstocked forest land. Timberland less than 16.7 percent stocked with growing-stock trees.

Other private land. Privately owned land excluding forest industry land or forest industry-leased land. Also referred to as nonindustrial private forest (NIPF) land.

Farmer-owned land. Owned by farm operators, excluding incorporated farm ownerships.

Other individual land. Owned by individuals other than farm operators.

Other corporate land. Owned by corporations, including incorporated farm ownerships.

Other removals. The growing-stock volume of trees removed from the inventory by cultural operations such as timber stand improvement, land clearing, and other changes in land use that result in the removal of the trees from the timberland.

Plant residues. Wood material generated in the production of timber products at primary manufacturing plants.

Coarse residues. Material, such as slabs, edgings, trim, veneer cores and ends, which is suitable for chipping.

Fine residues. Material, such as sawdust, shavings, and veneer chippings, which is not suitable for chipping.

Plant byproducts. Residues (coarse or fine) utilized in the further manufacture of industrial products or for consumer use, or utilized as fuel.

Unused plant residues. Residues (coarse or fine) that are not used for any product, including fuel.

Poletimber-size trees. Live trees at least 5.0 inches d.b.h. but smaller than sawtimber size.

Productive-reserved forest land. (see: Reserved timberland).

Quality class. A classification of sawtimber volume by log or tree grades.

Rangeland. Land on which the natural vegetation is predominantly native grasses, grasslike plants, forbs, or shrubs valuable for forage, not qualifying as timberland and not developed for another land use. Rangeland includes natural grassland and savannah.

Reserved timberland. Forest land sufficiently productive to qualify as timberland, but withdrawn from timber utilization through statute or adminstrative designation.

Rotten trees. Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of rot or missing sections, and with less than one-third of the gross board-foot tree volume in sound material.

Rough trees. Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of roughness, poor form, splits, and cracks, and with less than one-third of the gross board-foot tree volume in sound material; and live trees of noncommercial species.

Roundwood (roundwood logs). Logs, bolts, or other round sections cut from trees for industrial or consumer uses.

Roundwood chipped. Any timber cut primarily for pulpwood, delivered to nonpulpmills, chipped, and then sold to pulpmills as residues, including chipped tops, jump sections, whole trees, and pulpwood sticks.

Roundwood products. Any primary product such as lumber, poles, pilings, pulp, or fuelwood which is produced from roundwood.

Salvable dead trees. Standing or down dead trees considered utilizable by Forest Inventory and Analysis standards.

Saplings. Live trees 1.0 to 5.0 inches d.b.h.

Saw log. A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum diameter inside bark for softwoods of 6 inches (8 inches for hardwoods).

Saw-log portion. That part of the bole of sawtimber trees between a 1-foot stump and the saw-log top, including the portion of forks large enough to contain a saw log.

Saw-log top. The point on the bole of sawtimber trees above which a conventional saw log cannot be produced. The minimum saw-log top is 7.0 inches in diameter outside bark (d.o.b.) for softwoods and 9.0 inches (d.o.b.) for hardwoods.

Sawtimber-size trees. Softwoods 9.0 inches d.b.h. and larger and hardwoods 11.0 inches d.b.h. and larger.

Sawtimber volume. Growing-stock volume in the saw-log portion of sawtimber-size trees in board feet (International 1/4-inch rule).

Seedlings. Live trees of commercial species less than 1.0 inch d.b.h. that are expected to survive and develop.

Site class. A classification of forest land in terms of inherent capacity to grow crops of industrial wood based on fully stocked natural stands, by annual production capacity.

Class 1. 165 or more cubic feet per acre.

Class 2. 120 to 164 cubic feet per acre.

Class 3. 85 to 119 cubic feet per acre.

Class 4. 50 to 84 cubic feet per acre.

Class 5. 20 to 49 cubic feet per acre.

Softwoods. Gymnosperms; in the order Coniferales, usually evergreen (includes

the genus Taxodium which is deciduous), having needles or scalelike leaves.

Pines. Yellow pine species which include loblolly, longleaf, slash, pond, shortleaf, pitch, Virginia, sand, spruce, and Table Mountain pines.

Other softwoods. Cypress, eastern redcedar, white cedar, eastern white pine, eastern hemlock, spruce, and fir.

Stand-size class. A classification of forest land based on the diameter class distribution of growing-stock trees in the stand.

Sawtimber stands. Stands at least 16.7 percent stocked with growing-stock trees, with half or more of total stocking in sawtimber and poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Poletimber stands. Stands at least 16.7 percent stocked with growing-stock trees of which half or more of total stocking is in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Sapling-seedling stands. Stands at least 16.7 percent stocked with growing-stock trees of which more than half of total stocking is saplings and seedlings.

State, county, and municipal land. Land owned by States, counties, and local public agencies or municipalities, or land leased to these governmental units for 50 years or more.

Stocking. The degree of occupancy of land by trees, measured by basal area or the number of trees in a stand and spacing in the stand, compared with a minimum standard, depending on tree size, required to fully utilize the growth potential of the land.

Fully stocked. 100 percent or more stocking.

Medium stocked. 60 to 99 percent stocking.

Poorly stocked. Less than 60 percent stocking.

Survivor growth. The merchantable volume increment on trees 5.0 inches d.b.h. and larger in the inventory at the beginning of the year and surviving to its end.

Timberland. Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, not currently developed for nonforest use, capable of producing 20 cubic feet of industrial wood per acre per year and not withdrawn from timber utilization by legislative action.

Timber products. Roundwood products and byproducts.

Timber removals. The merchantable volume of trees removed from the inventory by harvesting, cultural operations such as stand improvement, land clearing, or changes in land use.

Top. The portion of the main stem and forks from a 4.0-inch diameter outside bark to the tips of the main stem and forks, plus all other limbs above the 4.0-inch top at least 0.5 inch in diameter at their point of occurrence.

Treatment opportunity. A classification of the management or treatment that would most improve for timber production the existing condition of the stand being sampled.

Tree grade. A classification of sawtimber trees based on the log grade of the butt log in the tree.

Unproductive forest land. (see: Woodland).

Upper-stem portion. That part of the main stem or fork of sawtimber trees above the saw-log top to minimum top diameter 4.0 inches outside bark or to the point where the main stem or fork breaks into limbs.

Urban and other areas. Areas developed for residential, industrial, or recreational purposes, school yards, cemeteries, roads, railroads, airports, beaches, powerlines and other rights-of-way, or other nonforest land not included in any other specified land use class.

Woodland. Forest land incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions.

Stocking Standard

D.b.h. class	Minimum number of trees per acre for full stocking	Minimum basal area per acre for full stocking
Seedlings	600	--
2	560	--
4	460	--
6	340	67
8	240	84
10	155	85
12	115	90
14	90	96
16	72	101
18	60	106
20	51	111

Conversion factors

Cubic feet of wood per average cord (excluding bark)

D.b.h. class	All species	Pine	Other softwood	Hardwood
6	61.6	61.0	68.2	60.0
8	69.5	68.1	76.0	68.4
10	74.7	73.1	81.4	73.4
12	77.9	76.7	85.2	76.4
14	80.4	79.4	88.2	78.4
16	82.0	81.6	90.4	79.8
18	83.2	83.3	92.3	80.8
20	84.0	84.8	93.8	81.5
22	84.3	86.0	95.1	82.1
24+	85.7	87.7	98.2	83.2
Average	74.8	72.2	82.5	74.6

Metric equivalents of units used in this report

1 acre = 4,046.86 square meters or 0.404686 hectare
1 cubic foot = 0.028317 cubic meter
1 inch = 2.54 centimeters or 0.0254 meter
Breast height (4.5 feet) = 1.4 meters above ground level
1 square foot = 929.03 square centimeters or 0.0929 square meter
1 square foot per acre basal area = 0.229568 square meter per hectare
1 pound = 0.454 kilogram
1 ton = 0.907 metric ton

County Tables

The county tables are intended for use in compiling forest resource estimates for groups of counties. Because the sampling procedure used by the Forest Survey was intended primarily to furnish inventory data for the survey unit as a whole, individual county estimates have limited and variable accuracy. As county totals are broken down by various subdivisions, the possibility of error increases and is greatest for the smallest items. The order of this increase can be computed with the formula on page 6.

Table 1.--Area, by county and land class, Florida, 1987

County	All land[a]	Forest land				Nonforest land[b]
		Total	Timberland	Woodland	Reserved timberland	
	Acres					
Alachua	576,941	307,773	297,262	--	10,511	269,168
Baker	374,509	338,624	327,657	--	10,967	35,885
Bay	484,858	402,062	400,032	2,030	--	82,796
Bradford	187,373	130,077	130,077	--	--	57,296
Brevard	637,062	118,545	109,806	8,739	--	518,517
Broward	775,213	35,666	--	35,666	--	739,547
Calhoun	363,392	298,800	298,800	--	--	64,592
Charlotte	441,613	54,217	33,838	20,379	--	387,396
Citrus	402,330	232,125	226,973	5,146	6	170,205
Clay	379,008	289,812	289,812	--	--	89,196
Collier	1,276,224	745,852	309,023	266,917	169,912	530,372
Columbia	509,728	364,523	357,298	1,096	6,129	145,205
Dade	1,251,366	240,537	--	207,661	32,876	1,010,829
De Soto	406,867	48,176	48,176	--	--	358,691
Dixie	448,826	396,866	396,866	--	--	51,960
Duval	496,954	262,713	261,242	1,359	112	234,241
Escambia	422,682	250,847	246,116	4,357	374	171,835
Flagler	314,099	255,897	253,247	1,345	1,305	58,202
Franklin	348,698	312,324	309,773	2,440	111	36,374
Gadsden	331,264	242,495	242,495	--	--	88,769
Gilchrist	226,413	138,145	138,145	--	--	88,268
Glades	488,301	91,189	79,469	11,720	--	397,112
Gulf	357,523	294,176	293,027	1,149	--	63,347
Hamilton	331,193	228,055	228,055	--	--	103,138
Hardee	407,968	90,844	90,844	--	--	317,124
Hendry	744,013	94,282	85,487	8,795	--	649,731
Hernando	305,421	170,299	170,299	--	--	135,122
Highlands	658,310	84,688	84,202	486	--	573,622
Hillsborough	673,830	131,354	121,406	9,948	--	542,476
Holmes	312,000	184,977	184,664	--	313	127,023
Indian River	318,118	36,513	29,367	7,146	--	281,605
Jackson	602,611	284,617	284,617	--	--	317,994

Continued

Table 1.--Area, by county and land class, Florida, 1987--Continued

County	All land[a]	Forest land				Nonforest land[b]
		Total	Timberland	Woodland	Reserved timberland	
	Acres					
Jefferson	389,933	281,815	279,715	—	2,100	108,118
Lafayette	348,928	286,790	286,790	—	—	62,138
Lake	610,790	258,234	239,716	5,698	12,820	352,556
Lee	513,952	181,037	120,398	60,639	—	332,915
Leon	432,582	295,031	294,872	—	159	137,551
Levy	703,718	496,965	486,570	895	9,500	206,753
Liberty	535,814	508,591	500,791	—	7,800	27,223
Madison	454,618	310,381	310,381	—	—	144,237
Manatee	478,163	49,249	43,563	5,666	20	428,914
Marion	1,030,195	576,799	563,237	302	13,260	453,396
Martin	355,002	37,892	30,485	7,407	—	317,110
Monroe	661,824	420,634	—	331,583	89,051	241,190
Nassau	415,386	335,452	334,940	512	—	79,934
Okaloosa	598,918	429,121	428,524	597	—	169,797
Okeechobee	493,114	33,366	31,780	1,586	—	459,748
Orange	582,714	175,071	172,515	2,556	—	407,643
Osceola	863,795	186,501	183,545	2,556	400	677,294
Palm Beach	1,275,590	82,691	—	82,691	—	1,192,899
Pasco	472,224	150,790	150,455	157	178	321,434
Pinellas	179,315	19,594	11,541	7,677	376	159,721
Polk	1,166,803	288,235	263,571	24,664	—	878,568
Putnam	469,043	351,426	348,923	—	2,503	117,617
Santa Rosa	655,053	476,441	475,212	—	1,229	178,612
Sarasota	366,810	57,182	56,050	1,132	—	309,628
Seminole	190,739	76,704	74,953	—	1,751	114,035
St. Johns	395,059	270,465	267,741	2,672	52	124,594
St. Lucie	371,840	34,853	33,267	1,586	—	336,987
Sumter	359,174	178,938	173,311	5,567	60	180,236
Suwannee	441,388	211,231	211,231	—	—	230,157
Taylor	676,813	592,791	586,127	6,664	—	84,022
Union	157,286	118,903	118,903	—	—	38,383
Volusia	707,198	482,229	467,605	11,017	3,607	224,969
Wakulla	384,845	337,567	311,635	—	25,932	47,278
Walton	682,080	510,924	508,291	2,633	—	171,156
Washington	377,427	288,049	287,894	—	155	89,378
Total	34,652,841	16,549,012	14,982,607	1,162,836	403,569	18,103,829

[a]From U.S. Bureau of the Census, 1980.

[b]Includes 121,108 acres of water according to Forest Survey standards of area classification, but defined by the Bureau of Census as land.

Table 2.—Area of timberland, by county and ownership class, Florida, 1987

County	All ownerships	Ownership class							
		National forest	Miscellaneous Federal	State	County and municipal	Forest industry[a]	Other private		
							Farmer	Corporate	Individual
	Acres								
Alachua	297,262	—	10	5,053	1,560	125,026	57,965	41,403	66,245
Baker	327,657	67,249	3,678	382	10	207,641	4,869	24,349	19,479
Bay	400,032	—	21,410	6,542	265	247,747	4,865	68,116	51,087
Bradford	130,077	—	—	12,936	929	83,356	13,529	5,798	13,529
Brevard	109,806	—	10,758	205	2,664	1,920	19,406	44,357	30,496
Calhoun	298,800	—	—	33	85	198,688	21,620	24,323	54,051
Charlotte	33,838	—	—	6,827	288	—	—	16,702	10,021
Citrus	226,973	—	2,704	46,597	678	8,763	—	64,234	103,997
Clay	289,812	—	640	46,341	1,138	86,192	7,068	68,326	80,107
Collier	309,023	—	—	1,950	2,720	—	44,639	24,348	235,366
Columbia	357,298	74,145	10	4,356	185	151,818	45,451	28,706	52,627
De Soto	48,176	—	36	1,040	198	—	9,380	18,761	18,761
Dixie	396,866	—	4,827	1,177	245	322,742	2,262	33,938	31,675
Duval	261,242	—	15,015	2,020	1,334	48,530	3,037	85,025	106,281
Escambia	246,116	—	2,560	5,404	90	100,721	15,548	62,192	59,601
Flagler	253,247	—	—	767	415	150,359	11,301	36,727	53,678
Franklin	309,773	21,170	7,295	17,380	690	253,184	—	3,016	7,038
Gadsden	242,495	—	1	12,383	145	88,654	19,784	33,915	87,613
Gilchrist	138,145	—	—	5	280	32,334	25,125	15,075	65,326
Glades	79,469	—	205	—	25	73,337	1,475	4,427	—
Gulf	293,027	—	755	39,392	67	210,555	2,817	16,903	22,538
Hamilton	228,055	—	—	2,484	190	148,038	29,572	11,374	36,397
Hardee	90,844	—	—	1,018	80	—	8,158	40,794	40,794
Hendry	85,487	—	8,809	460	40	50	19,032	42,822	14,274
Hernando	170,299	—	3,806	45,978	1,715	410	2,631	42,094	73,665
Highlands	84,202	—	22,500	4,213	140	—	13,034	26,068	18,247
Hillsborough	121,406	—	135	19,125	2,917	—	10,177	58,520	30,532
Holmes	184,664	—	500	2,432	337	69,725	77,105	—	34,565
Indian River	29,367	—	—	583	766	—	7,642	12,735	7,641
Jackson	284,617	—	5,209	2,809	83	64,942	88,379	42,850	80,345
Jefferson	279,715	—	2,200	4,338	412	119,270	40,393	35,008	78,094
Lafayette	286,790	—	—	90	323	214,077	18,861	15,717	37,722
Lake	239,716	69,712	280	15,684	454	305	11,270	60,862	81,149
Lee	120,398	—	—	200	2,123	—	4,723	18,892	94,460
Leon	294,872	101,538	20	8,528	1,928	56,677	17,319	39,586	69,276
Levy	486,570	—	7,070	9,840	1,256	281,017	18,475	52,785	116,127
Liberty	500,791	252,133	—	23,452	40	167,578	10,969	8,227	38,392
Madison	310,381	—	955	1,061	47	161,966	45,236	10,644	90,472
Manatee	43,563	—	—	5,278	2,086	—	2,262	20,362	13,575
Marion	563,237	244,691	—	28,905	1,309	96,078	16,293	68,429	107,532
Martin	30,485	—	—	8,988	275	—	—	8,843	12,379
Nassau	334,940	—	5	3,298	599	197,370	9,326	21,760	102,582

Continued

Table 2.--Area of timberland, by county and ownership class, Florida, 1987--Continued

County	All ownerships	Ownership class							
		National forest	Miscellaneous Federal	State	County and municipal	Forest industry[a]	Other private		
							Farmer	Corporate	Individual
	Acres								
Okaloosa	428,524	—	211,478	59,859	748	54,823	15,135	10,810	75,671
Okeechobee	31,780	—	—	192	100	—	10,496	10,496	10,496
Orange	172,515	—	278	34,309	11,238	—	5,067	81,082	40,541
Osceola	183,545	—	850	12,412	350	215	21,513	112,349	35,856
Pasco	150,455	—	20	30,109	4,096	28,757	6,906	34,529	46,038
Pinellas	11,541	—	—	600	1,026	—	—	5,949	3,966
Polk	263,571	—	15,000	20,793	1,881	—	35,296	98,830	91,771
Putnam	348,923	19,637	4,463	3,868	397	110,909	11,034	110,342	88,273
St. Johns	267,741	—	—	4,201	120	139,252	12,670	32,943	78,555
St. Lucie	33,267	—	—	535	358	—	2,490	17,432	12,452
Santa Rosa	475,212	—	56,033	132,525	809	171,004	27,647	10,633	76,561
Sarasota	56,050	—	—	8,749	3,492	—	2,434	26,772	14,603
Seminole	74,953	—	160	180	1,269	—	15,944	25,511	31,889
Sumter	173,311	—	—	54,545	5	18,990	15,350	46,048	38,373
Suwannee	211,231	—	40	3,681	626	24,486	17,490	29,983	134,925
Taylor	586,127	—	—	280	224	546,632	2,551	3,827	33,163
Union	118,903	—	—	5,210	260	76,141	14,343	2,869	20,080
Volusia	467,605	—	1,220	2,715	740	78,988	22,922	180,510	180,510
Wakulla	311,635	133,880	31,732	6,729	175	56,745	12,220	15,275	48,879
Walton	508,291	—	137,233	18,687	209	128,721	58,520	42,560	122,361
Washington	287,894	—	10	13,869	178	42,236	43,882	102,392	85,327
Total	14,982,607	990,155	579,910	813,602	59,432	5,446,419	1,114,908	2,360,155	3,618,026

[a]Includes 676,795 acres of other private land under long-term lease.

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Table 3.--Area of timberland, by county and forest-type group, Florida, 1987

County	All type groups	Forest-type group								
		White pine-hemlock	Spruce-fir	Longleaf-slash	Loblolly-shortleaf	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch
	Acres									
Alachua	297,262	—	—	160,367	9,652	17,026	55,669	54,548	—	—
Baker	327,657	—	—	230,162	—	16,349	—	81,146	—	—
Bay	400,032	—	—	283,724	20,903	15,559	46,318	33,528	—	—
Bradford	130,077	—	—	68,173	6,951	21,617	3,865	29,471	—	—
Brevard	109,806	—	—	40,237	11,091	—	4,923	53,555	—	—
Calhoun	298,800	—	—	142,360	28,642	41,842	23,733	54,582	7,641	—
Charlotte	33,838	—	—	21,858	—	—	—	11,980	—	—
Citrus	226,973	—	—	50,992	9,175	44,238	66,324	53,185	3,059	—
Clay	289,812	—	—	129,665	27,549	10,723	52,731	69,144	—	—
Collier	309,023	—	—	44,638	—	24,348	4,058	235,979	—	—
Columbia	357,298	—	—	188,322	12,833	20,584	47,257	88,302	—	—
De Soto	48,176	—	—	11,725	198	2,345	9,381	24,527	—	—
Dixie	396,866	—	—	177,390	11,424	21,314	41,963	144,775	—	—
Duval	261,242	—	—	122,097	18,218	34,901	33,475	52,551	—	—
Escambia	246,116	—	—	138,565	18,761	31,857	24,468	29,873	2,592	—
Flagler	253,247	—	—	156,036	7,810	16,275	7,395	65,731	—	—
Franklin	309,773	—	—	202,382	14,452	21,805	4,138	66,796	—	—
Gadsden	242,495	—	—	31,470	65,878	34,081	19,951	91,115	—	—
Gilchrist	138,145	—	—	69,382	5,026	10,049	43,372	10,316	—	—
Glades	79,469	—	—	42,306	—	1,475	—	35,688	—	—
Gulf	293,027	—	—	145,022	2,818	19,441	2,817	120,111	2,818	—
Hamilton	228,055	—	—	115,134	15,754	12,697	30,752	53,718	—	—
Hardee	90,844	—	—	21,415	80	4,079	12,237	44,873	8,160	—
Hendry	85,487	—	—	33,766	—	4,758	4,758	42,205	—	—
Hernando	170,299	—	—	34,002	21,048	15,122	74,639	25,488	—	—
Highlands	84,202	—	—	25,534	—	5,214	15,674	37,780	—	—
Hillsborough	121,406	—	—	12,721	2,544	12,720	21,001	72,420	—	—
Holmes	184,664	—	—	48,140	46,909	16,655	27,289	45,671	—	—
Indian River	29,367	—	—	16,048	—	5,095	2,547	5,677	—	—
Jackson	284,617	—	—	56,687	47,627	33,366	26,780	114,656	5,501	—
Jefferson	279,715	—	—	48,179	46,992	27,334	30,026	127,184	—	—
Lafayette	286,790	—	—	138,327	16,942	17,423	32,661	81,437	—	—
Lake	239,716	—	—	57,893	42,060	19,102	28,360	87,793	4,508	—
Lee	120,398	—	—	56,876	—	14,169	4,723	44,630	—	—
Leon	294,872	—	—	103,241	57,696	27,868	61,920	44,147	—	—
Levy	486,570	—	—	175,609	44,807	37,586	109,561	116,277	2,730	—
Liberty	500,791	—	—	236,621	29,105	38,089	31,592	153,363	12,021	—
Madison	310,381	—	—	102,888	36,384	16,732	59,819	91,642	2,916	—
Manatee	43,563	—	—	9,804	4,349	—	9,049	20,361	—	—
Marion	563,237	—	—	119,134	195,816	46,722	134,134	67,431	—	—
Martin	30,485	—	—	15,105	6,263	1,769	—	7,348	—	—
Nassau	334,940	—	—	179,007	17,513	17,893	14,786	105,741	—	—

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Table 3.--Area of timberland, by county and forest-type group, Florida, 1987--Continued

County	All type groups	Forest-type group								
		White pine-hemlock	Spruce-fir	Longleaf-slash	Loblolly-shortleaf	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch
	Acres									
Okaloosa	428,524	—	--	199,512	55,872	64,529	50,256	58,355	--	--
Okeechobee	31,780	—	--	10,595	--	--	--	19,086	2,099	--
Orange	172,515	—	--	27,873	34,042	3,119	18,014	89,467	--	--
Osceola	183,545	—	--	40,023	2,390	11,951	17,582	111,599	--	--
Pasco	150,455	—	--	39,387	--	6,906	41,809	62,353	--	--
Pinellas	11,541	—	--	4,992	1,983	1,983	—	2,583	--	--
Polk	263,571	—	--	50,395	2,599	14,119	59,095	126,773	10,590	--
Putnam	348,923	—	--	163,577	28,606	29,099	70,782	54,100	2,759	--
St. Johns	267,741	—	--	124,485	23,793	33,571	10,136	70,688	5,068	--
St. Lucie	33,267	—	--	22,771	2,491	2,490	—	5,515	--	--
Santa Rosa	475,212	—	--	258,759	12,106	57,889	60,907	85,551	--	--
Sarasota	56,050	—	--	20,636	--	8,749	7,301	19,364	--	--
Seminole	74,953	—	--	14,025	--	3,189	25,511	32,228	--	--
Sumter	173,311	—	--	43,503	11,511	8,032	44,668	59,661	5,936	--
Suwannee	211,231	—	--	99,081	2,499	20,505	64,158	22,490	2,498	--
Taylor	586,127	—	--	305,501	44,122	17,647	18,141	200,716	--	--
Union	118,903	—	--	79,834	2,869	2,429	7,726	26,045	--	--
Volusia	467,605	—	--	193,679	28,651	57,069	25,214	160,126	2,866	--
Wakulla	311,635	—	--	145,781	47,621	34,689	10,527	73,017	--	--
Walton	508,291	--	--	172,476	114,005	30,640	81,451	109,719	--	--
Washington	287,894	—	--	69,835	58,213	21,942	52,951	84,953	--	--
Total	14,982,607	—	--	6,149,924	1,376,643	1,210,769	1,890,375	4,271,134	83,762	—

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Table 4.--Area of timberland, by county and stand-size class, Florida, 1987

County	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
	Acres				
Alachua	297,262	85,105	89,983	107,442	14,732
Baker	327,657	85,908	104,146	116,544	21,059
Bay	400,032	34,177	117,716	173,299	74,840
Bradford	130,077	13,805	34,887	60,362	21,023
Brevard	109,806	45,241	24,951	10,980	28,634
Calhoun	298,800	91,329	72,651	98,382	36,438
Charlotte	33,838	6,681	15,179	3,340	8,638
Citrus	226,973	79,645	47,053	61,713	38,562
Clay	289,812	73,122	83,037	80,188	53,465
Collier	309,023	140,693	60,870	40,581	66,879
Columbia	357,298	101,366	118,702	125,387	11,843
De Soto	48,176	15,147	11,923	--	21,106
Dixie	396,866	103,605	155,613	117,828	19,820
Duval	261,242	81,588	49,377	100,174	30,103
Escambia	246,116	100,523	63,060	79,560	2,973
Flagler	253,247	82,727	94,645	59,287	16,588
Franklin	309,773	59,430	74,554	153,982	21,807
Gadsden	242,495	79,672	51,520	102,723	8,580
Gilchrist	138,145	10,187	43,235	56,427	28,296
Glades	79,469	21,221	36,666	7,118	14,464
Gulf	293,027	80,286	58,298	122,315	32,128
Hamilton	228,055	53,554	78,811	81,644	14,046
Hardee	90,844	44,874	24,556	4,080	17,334
Hendry	85,487	36,332	31,944	12,453	4,758
Hernando	170,299	76,529	35,581	35,174	23,015
Highlands	84,202	37,779	10,214	10,354	25,855
Hillsborough	121,406	68,216	29,648	13,364	10,178
Holmes	184,664	60,169	35,601	83,226	5,668
Indian River	29,367	19,179	2,547	--	7,641
Jackson	284,617	102,053	63,199	97,796	21,569
Jefferson	279,715	129,953	39,214	77,289	33,259
Lafayette	286,790	65,587	101,843	97,478	21,882
Lake	239,716	94,320	70,467	35,298	39,631
Lee	120,398	23,615	56,876	14,169	25,738
Leon	294,872	129,712	45,818	109,056	10,286
Levy	486,570	137,393	133,067	150,036	66,074
Liberty	500,791	223,244	95,326	126,875	55,346
Madison	310,381	93,773	76,448	99,543	40,617
Manatee	43,563	18,100	8,873	--	16,590
Marion	563,237	166,800	162,838	143,276	90,323
Martin	30,485	9,800	--	11,569	9,116
Nassau	334,940	89,765	119,041	105,322	20,812

Continued

Table 4.--Area of timberland, by county and stand-size class, Florida, 1987--Continued

County	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
	Acres				
Okaloosa	428,524	181,735	95,261	98,380	53,148
Okeechobee	31,780	21,284	6,298	--	4,198
Orange	172,515	76,732	51,261	20,272	24,250
Osceola	183,545	99,996	34,176	22,227	27,146
Pasco	150,455	73,363	26,136	27,502	23,454
Pinellas	11,541	7,575	1,983	1,983	--
Polk	263,571	118,685	64,610	29,179	51,097
Putnam	348,923	79,779	94,275	111,738	63,131
St. Johns	267,741	78,058	94,939	84,608	10,136
St. Lucie	33,267	18,326	7,471	4,980	2,490
Santa Rosa	475,212	189,743	131,071	134,727	19,671
Sarasota	56,050	26,368	10,317	3,598	15,767
Seminole	74,953	52,472	3,349	3,188	15,944
Sumter	173,311	81,000	43,953	22,312	26,046
Suwannee	211,231	60,389	45,960	92,388	12,494
Taylor	586,127	124,635	161,768	226,971	72,753
Union	118,903	28,385	46,458	41,631	2,429
Volusia	467,605	182,399	106,997	133,172	45,037
Wakulla	311,635	151,571	34,875	106,812	18,377
Walton	508,291	145,357	117,766	145,083	100,085
Washington	287,894	56,518	73,896	105,214	52,266
Total	14,982,607	4,926,575	3,882,798	4,401,599	1,771,635

Table 5.--Area of timberland, by county and site class, Florida, 1987

County	All classes	Site class (cubic feet per acre per year)				
		>164	120-164	85-119	50-84	20-49
	Acres					
Alachua	297,262	--	5,986	109,752	152,059	29,465
Baker	327,657	--	9,508	46,664	249,844	21,641
Bay	400,032	--	--	10,693	223,650	165,689
Bradford	130,077	--	758	16,212	102,163	10,944
Brevard	109,806	--	--	8,317	56,330	45,159
Calhoun	298,800	--	7,641	33,580	202,845	54,734
Charlotte	33,838	--	--	1,670	23,529	8,639
Citrus	226,973	--	--	4,395	89,429	133,149
Clay	289,812	--	4,712	42,410	172,732	69,958
Collier	309,023	--	--	4,058	107,458	197,507
Columbia	357,298	--	7,505	95,153	226,227	28,413
De Soto	48,176	--	--	198	22,183	25,795
Dixie	396,866	--	5,119	48,032	281,818	61,897
Duval	261,242	--	6,074	43,503	142,891	68,774
Escambia	246,116	2,592	--	24,847	199,167	19,510
Flagler	253,247	--	5,287	17,005	191,050	39,905
Franklin	309,773	--	1,924	3,648	116,604	187,597
Gadsden	242,495	--	5,954	53,933	157,036	25,572
Gilchrist	138,145	--	2,644	7,948	87,352	40,201
Glades	79,469	--	--	--	49,424	30,045
Gulf	293,027	--	--	5,587	140,779	146,661
Hamilton	228,055	--	--	32,844	181,739	13,472
Hardee	90,844	--	--	12,317	36,715	41,812
Hendry	85,487	--	--	--	57,556	27,931
Hernando	170,299	2,631	2,631	16,961	101,715	46,361
Highlands	84,202	--	--	140	47,888	36,174
Hillsborough	121,406	--	--	7,633	72,048	41,725
Holmes	184,664	--	--	47,303	112,730	24,631
Indian River	29,367	--	--	766	8,225	20,376
Jackson	284,617	--	14,473	46,903	189,732	33,509
Jefferson	279,715	--	13,465	48,810	188,614	28,826
Lafayette	286,790	--	--	30,587	205,427	50,776
Lake	239,716	2,255	11,806	33,854	128,500	63,301
Lee	120,398	--	--	--	19,092	101,306
Leon	294,872	--	7,422	39,864	159,176	88,410
Levy	486,570	--	2,639	73,136	298,850	111,945
Liberty	500,791	--	--	45,482	269,770	185,539
Madison	310,381	--	--	64,012	218,228	28,141
Manatee	43,563	--	--	4,349	13,574	25,640
Marion	563,237	6,169	20,155	126,503	287,501	122,909
Martin	30,485	--	--	--	9,801	20,684
Nassau	334,940	--	5,838	59,594	191,458	78,050

Continued

Table 5.--Area of timberland, by county and site class, Florida, 1987--Continued

County	All classes	Site class (cubic feet per acre per year)				
		>164	120-164	85-119	50-84	20-49
	Acres					
Okaloosa	428,524	--	--	31,782	170,806	225,936
Okeechobee	31,780	--	--	100	19,084	12,596
Orange	172,515	--	--	10,135	108,891	53,489
Osceola	183,545	--	--	12,300	99,649	71,596
Pasco	150,455	--	--	9,583	90,786	50,086
Pinellas	11,541	--	--	1,026	6,549	3,966
Polk	263,571	--	--	940	171,777	90,854
Putnam	348,923	--	--	76,082	191,648	81,193
St. Johns	267,741	--	2,534	29,230	197,042	38,935
St. Lucie	33,267	--	--	358	12,986	19,923
Santa Rosa	475,212	--	22,300	99,353	243,070	110,489
Sarasota	56,050	--	--	--	27,248	28,802
Seminole	74,953	--	--	14,025	51,361	9,567
Sumter	173,311	3,837	2,098	5,935	134,221	27,220
Suwarnee	211,231	--	--	22,487	138,256	50,488
Taylor	586,127	--	--	75,202	360,434	150,491
Union	118,903	5,210	--	26,046	79,480	8,167
Volusia	467,605	2,865	8,596	57,544	298,490	100,110
Wakulla	311,635	--	--	34,533	156,678	120,424
Walton	508,291	--	--	23,410	263,911	220,970
Washington	287,894	--	4,192	26,453	110,717	146,532
Total	14,982,607	25,559	181,261	1,825,187	8,725,993	4,224,607

Table 6.--Area of timberland, by county and stocking class of growing-stock trees, Florida, 1987

County	All classes	Stocking class (percent)[a]				
		>130	100-130	60-99	16.7-59	<16.7
			Acres			
Alachua	297,262	20,254	99,905	108,594	53,777	14,732
Baker	327,657	31,550	130,394	89,400	55,254	21,059
Bay	400,032	8,262	118,052	116,581	85,211	71,926
Bradford	130,077	13,513	27,177	51,994	16,370	21,023
Brevard	109,806	11,294	13,009	24,844	32,025	28,634
Calhoun	298,800	--	85,148	122,757	54,457	36,438
Charlotte	33,838	3,341	11,837	5,011	5,011	8,638
Citrus	226,973	9,573	14,553	35,454	128,831	38,562
Clay	289,812	13,728	77,998	91,564	53,057	53,465
Collier	309,023	16,233	60,870	71,706	93,335	66,879
Columbia	357,298	16,515	110,596	132,088	86,256	11,843
De Soto	48,176	36	3,386	9,578	14,070	21,106
Dixie	396,866	20,576	80,281	161,042	115,147	19,820
Duval	261,242	6,545	102,601	79,080	42,913	30,103
Escambia	246,116	21,335	79,725	102,070	40,013	2,973
Flagler	253,247	15,143	69,544	107,753	44,219	16,588
Franklin	309,773	10,627	97,709	121,649	57,981	21,807
Gadsden	242,495	11,673	62,718	107,979	51,545	8,580
Gilchrist	138,145	7,675	48,737	25,668	27,769	28,296
Glades	79,469	5,641	5,641	25,386	28,337	14,464
Gulf	293,027	14,296	67,029	98,508	81,066	32,128
Hamilton	228,055	16,845	80,761	66,679	49,724	14,046
Hardee	90,844	--	16,319	24,556	32,635	17,334
Hendry	85,487	14,324	8,155	26,766	31,484	4,758
Hernando	170,299	2,298	17,828	70,679	56,479	23,015
Highlands	84,202	7,713	10,321	17,032	23,281	25,855
Hillsborough	121,406	20,995	5,224	44,914	40,095	10,178
Holmes	184,664	2,659	65,129	70,625	40,583	5,668
Indian River	29,367	583	3,313	2,547	15,283	7,641
Jackson	284,617	8,035	103,370	113,715	37,928	21,569
Jefferson	279,715	12,822	45,081	136,936	51,617	33,259
Lafayette	286,790	15,984	84,635	93,429	70,860	21,882
Lake	239,716	10,683	42,870	61,760	84,772	39,631
Lee	120,398	4,723	23,815	9,446	56,676	25,738
Leon	294,872	2,475	77,222	145,785	59,104	10,286
Levy	486,570	34,426	105,863	173,703	106,504	66,074
Liberty	500,791	18,523	96,738	205,213	124,971	55,346
Madison	310,381	28,141	74,229	117,659	49,735	40,617
Manatee	43,563	--	--	11,138	15,835	16,590
Marion	563,237	7,003	139,019	183,168	143,724	90,323
Martin	30,485	--	6,263	7,075	8,031	9,116
Nassau	334,940	22,214	120,769	123,841	47,304	20,812

Continued

Table 6.--Area of timberland, by county and stocking class of growing-stock trees, Florida, 1987--Continued

County	All classes	Stocking class (percent)[a]				
		>130	100-130	60-99	16.7-59	<16.7
				Acres		
Okaloosa	428,524	14,759	43,639	151,809	165,169	53,148
Okeechobee	31,780	2,292	12,695	6,298	6,297	4,198
Orange	172,515	18,322	26,508	42,883	60,552	24,250
Osceola	183,545	28,683	49,086	42,061	36,569	27,146
Pasco	150,455	22,524	33,858	27,064	43,555	23,454
Pinellas	11,541	600	6,975	--	3,966	--
Polk	263,571	30,838	53,484	66,571	61,581	51,097
Putnam	348,923	19,595	59,874	109,645	99,436	60,373
St. Johns	267,741	13,348	81,033	106,648	56,576	10,136
St. Lucie	33,267	535	2,848	4,981	22,413	2,490
Santa Rosa	475,212	3[illegible],278	138,885	172,246	114,800	17,003
Sarasota	56,050	--	--	17,037	23,246	15,767
Seminole	74,953	180	4,457	19,133	35,239	15,944
Sumter	173,311	21,900	26,045	42,313	57,007	26,046
Suwannee	211,231	--	68,673	84,465	45,599	12,494
Taylor	586,127	14,987	175,423	178,409	144,555	72,753
Union	118,903	20,221	49,325	26,359	20,569	2,429
Volusia	467,605	25,695	122,295	123,799	150,779	45,037
Wakulla	311,635	10,215	63,132	112,920	106,991	18,377
Walton	508,291	18,937	70,323	202,478	116,468	100,085
Washington	287,894	2,438	70,591	105,152	57,447	52,266
Total	14,982,607	786,603	3,652,983	5,037,643	3,742,083	1,763,295

[a]See stocking standards on page 13.

Table 7.--Volume of growing stock and sawtimber on timberland, by county and species group, Florida, 1987

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet[a]					Thousand board feet				
Alachua	321,961	151,985	51,525	52,054	66,397	867,699	269,927	197,442	139,553	260,777
Baker	393,443	253,061	67,886	70,760	1,736	1,082,496	711,739	203,613	164,291	2,853
Bay	168,861	133,873	8,741	17,235	9,012	289,017	204,467	23,163	54,131	7,256
Bradford	87,065	54,778	6,688	14,283	11,316	189,348	99,946	12,673	21,878	54,851
Brevard	102,020	52,946	14,313	15,937	18,824	276,963	93,162	40,887	59,204	83,710
Calhoun	247,070	141,938	19,176	52,030	33,926	757,979	383,980	84,074	166,237	123,688
Charlotte	28,257	11,047	15,848	277	1,085	62,415	24,512	32,804	--	5,099
Citrus	154,888	62,509	39,615	23,979	28,785	509,420	193,390	173,024	67,269	75,737
Clay	257,201	148,711	11,437	48,772	48,281	686,941	393,937	41,628	108,206	143,170
Collier	306,580	47,000	213,950	28,970	16,660	877,155	143,422	601,680	78,857	53,196
Columbia	366,963	208,923	50,077	76,253	31,710	1,065,519	694,807	169,345	124,139	77,228
De Soto	35,809	6,092	5,776	15,877	8,064	126,212	29,158	23,663	43,323	30,068
Dixie	438,281	148,291	103,414	95,130	91,446	1,132,383	315,760	318,244	250,144	248,235
Duval	281,941	128,484	14,346	83,432	55,679	865,189	428,259	38,918	215,663	182,349
Escambia	322,810	177,563	5,671	106,152	33,424	1,138,189	615,946	22,974	390,774	108,495
Flagler	294,892	141,004	91,378	43,984	18,526	757,384	302,216	257,331	116,921	80,916
Franklin	223,161	108,866	46,106	60,526	7,663	668,255	293,853	139,351	211,770	23,281
Gadsden	235,374	93,291	--	72,935	69,148	802,131	360,491	--	211,514	230,126
Gilchrist	82,278	54,581	16,643	2,794	8,260	185,615	104,310	48,712	4,073	28,520
Glades	67,212	34,841	27,755	3,369	1,247	207,038	92,972	103,430	4,637	5,999
Gulf	220,673	57,806	58,632	85,083	19,152	655,935	131,429	182,153	269,331	73,022
Hamilton	246,355	105,708	30,977	60,699	48,971	604,846	241,046	69,858	117,036	176,906
Hardee	97,301	27,496	28,117	13,897	27,791	375,538	137,141	105,517	29,542	103,338
Hendry	121.746	25,672	85,713	4,607	5,754	395,640	78,318	277,564	19,682	20,076
Hernando	176,404	50,057	5,448	58,974	61,925	571,602	180,736	24,287	166,150	200,429
Highlands	89,409	16,153	34,507	28,983	9,766	321,114	58,584	146,011	75,901	40,618
Hillsborough	204,390	24,585	102,628	31,591	45,586	641,067	116,102	278,864	80,314	165,787
Holmes	167,021	68,039	8,662	68,736	21,584	512,960	263,285	36,071	143,459	70,145
Indian River	27,548	16,490	8,470	267	2,321	110,307	76,008	24,232	--	10,067
Jackson	328,367	116,200	21,101	103,980	87,086	1,074,208	451,855	79,731	254,487	288,135
Jefferson	345,506	88,676	40,431	130,731	85,668	1,213,020	402,779	162,196	365,248	282,797
Lafayette	241,050	120,181	48,759	36,377	35,733	583,575	268,830	120,069	57,735	136,941
Lake	277,521	97,532	74,279	72,500	33,210	871,810	373,741	199,179	178,974	119,916
Lee	85,523	33,004	52,519	--	--	183,339	46,105	137,234	--	--
Leon	314,153	160,318	6,202	78,104	69,529	1,109,015	632,840	16,045	223,254	236,876
Levy	515,926	218,455	97,012	98,755	101,704	1,428,263	547,116	277,991	280,713	322,443
Liberty	542,876	230,902	94,064	152,652	65,258	1,913,295	786,016	387,126	476,004	264,149
Madison	316,917	98,333	61,374	122,317	34,893	903,319	312,305	198,347	299,364	93,303
Manatee	27,861	7,299	--	13,404	7,158	106,374	32,403	--	49,901	24,070
Marion	492,341	335,883	20,422	54,932	81,104	1,390,207	888,150	64,362	136,578	301,117
Martin	10,539	10,313	226	--	--	40,631	40,631	--	--	--
Nassau	394,980	189,941	40,833	110,209	53,997	1,021,708	505,141	134,937	216,758	164,872

Continued

Table 7.--Volume of growing stock and sawtimber on timberland, by county and species group, Florida, 1987--Continued

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet[a]					Thousand board feet				
Okaloosa	387,051	292,081	15,448	51,167	28,355	1,349,401	1,082,601	71,811	98,163	96,826
Okeechobee	58,351	12,921	16,423	24,352	4,655	203,725	45,467	66,346	77,282	14,630
Orange	232,202	51,547	92,295	65,841	22,519	700,659	149,603	281,753	185,388	83,915
Osceola	316,504	60,584	168,126	60,832	26,962	970,242	287,965	459,028	160,957	62,292
Pasco	215,159	31,327	88,848	43,456	51,528	661,477	115,272	236,141	122,562	187,502
Pinellas	15,000	8,889	3,329	2,266	516	53,222	37,553	7,467	6,729	1,473
Polk	387,694	70,170	167,830	104,271	45,423	1,147,375	278,496	430,017	272,713	166,149
Putnam	333,237	174,093	11,725	91,694	55,725	943,442	428,231	42,717	276,696	195,798
St. Johns	278,033	138,937	29,618	67,272	42,206	705,229	364,571	90,895	125,754	124,009
St. Lucie	20,785	18,291	2,494	--	--	79,465	69,589	9,876	--	--
Santa Rosa	568,392	356,429	50,534	124,259	37,170	1,769,373	1,179,542	190,253	300,831	98,747
Sarasota	24,532	16,612	--	3,404	4,516	73,329	48,126	--	8,345	16,858
Seminole	65,279	19,666	477	15,163	29,973	266,765	84,865	2,117	57,619	122,164
Sumter	257,161	38,857	87,007	57,984	73,313	831,490	121,583	284,775	167,295	257,837
Suwannee	139,596	47,436	219	23,887	68,054	497,905	147,778	--	88,183	261,944
Taylor	430,431	173,754	69,131	97,125	90,421	1,072,135	350,249	203,919	232,940	285,027
Union	124,804	57,467	16,378	45,033	5,926	282,650	109,296	50,346	108,202	14,806
Volusia	487,845	201,479	138,266	101,040	47,060	1,453,766	715,077	328,202	242,573	167,914
Wakulla	306,381	172,923	7,412	69,522	56,524	1,153,274	733,552	30,474	206,309	182,939
Walton	424,410	280,951	11,695	103,363	28,401	1,349,353	943,836	50,457	290,896	64,164
Washington	236,240	63,217	50,421	77,647	44,955	727,784	204,343	253,473	147,188	122,780
Total	14,969,561	6,546,458	2,758,397	3,441,125	2,223,581	44,867,182	19,824,410	8,544,797	9,049,640	7,448,335

[a]Factors for converting to cords are shown on page 13.

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Table 8.--Average net annual growth of growing stock and sawtimber on timberland, by county and species group, Florida, 1980-1986

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Alachua	17,011	13,233	857	1,167	1,754	63,094	46,649	3,848	4,992	7,605
Baker	20,168	17,390	1,237	1,418	123	39,604	33,403	4,351	1,778	72
Bay	14,598	13,784	194	296	324	16,497	14,878	245	731	643
Bradford	5,308	4,495	212	407	194	13,696	11,791	296	497	1,112
Brevard	4,179	3,165	272	383	359	16,955	12,748	1,248	1,661	1,298
Calhoun	12,169	9,807	325	1,149	888	32,332	23,162	2,402	3,440	3,328
Charlotte	1,042	633	351	18	40	3,682	2,612	851	--	219
Citrus	6,954	3,979	1,020	877	1,078	25,790	12,724	5,563	2,365	5,138
Clay	14,589	11,920	182	1,350	1,137	38,147	30,688	481	3,216	3,762
Collier	8,300	2,340	4,438	1,008	514	26,897	6,991	15,275	2,932	1,699
Columbia	16,645	11,869	666	2,927	1,183	42,815	35,116	2,249	2,900	2,550
De Soto	1,093	204	122	496	271	5,087	1,918	689	1,766	714
Dixie	23,475	16,070	2,399	2,201	2,805	56,956	31,567	7,910	6,575	10,904
Duval	12,646	9,132	240	2,125	1,149	45,075	30,864	961	7,066	6,184
Escambia	11,614	8,889	140	1,516	1,069	46,460	36,243	613	5,351	4,253
Flagler	14,432	11,417	1,889	877	249	41,586	30,276	7,152	2,825	1,333
Franklin	10,990	9,583	715	593	99	18,663	13,062	2,425	2,682	494
Gadsden	9,114	5,461	--	1,780	1,873	32,525	15,596	--	7,277	9,652
Gilchrist	6,209	5,510	301	99	299	19,438	17,545	1,017	68	808
Glades	2,465	1,918	438	75	34	9,871	6,468	2,322	873	208
Gulf	5,927	3,577	1,134	906	310	15,353	5,895	4,431	3,603	1,424
Hamilton	14,241	10,819	675	1,525	1,222	24,243	15,374	2,054	3,574	3,241
Hardee	2,743	784	843	373	743	10,610	4,994	3,061	628	1,927
Hendry	2,881	952	1,708	83	138	15,005	5,759	6,685	435	2,126
Hernando	6,837	3,559	144	1,479	1,655	24,796	12,598	771	6,364	5,063
Highlands	2,477	778	686	741	272	10,317	1,926	3,804	3,216	1,371
Hillsborough	6,125	916	2,898	793	1,518	26,217	4,297	14,088	3,660	4,172
Holmes	6,571	4,094	164	1,402	911	18,919	12,924	930	2,696	2,369
Indian River	883	539	279	15	50	4,632	3,221	1,261	--	150
Jackson	10,008	5,221	487	2,003	2,297	42,032	23,954	1,715	5,340	11,023
Jefferson	9,972	3,880	615	2,996	2,481	42,071	16,670	4,366	10,748	10,287
Lafayette	12,955	10,319	840	1,053	737	26,793	21,544	2,185	958	2,106
Lake	11,023	5,466	2,092	2,499	966	45,144	22,392	7,319	10,343	5,090
Lee	2,869	2,014	855	--	--	9,919	5,830	4,089	--	--
Leon	11,100	7,017	134	1,865	2,084	47,880	31,500	293	6,485	9,602
Levy	23,826	16,751	2,263	2,139	2,673	80,748	55,248	9,422	6,291	9,787
Liberty	14,429	9,718	1,145	2,309	1,257	48,702	27,290	5,819	8,247	7,346
Madison	11,429	6,936	854	2,373	1,266	33,708	18,608	3,465	8,126	3,509
Manatee	835	263	--	265	307	3,553	1,465	--	1,178	910
Marion	26,516	22,257	310	1,681	2,268	73,884	58,848	1,168	5,634	8,234
Martin	461	423	38	--	--	1,170	1,170	--	--	--
Nassau	21,121	16,547	686	2,612	1,276	56,159	43,467	1,924	6,718	4,050

Continued

Table 8.--Average net annual growth of growing stock and sawtimber on timberland, by county and species group, Florida, 1980-1986--Continued

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Okaloosa	14,473	12,137	245	1,310	781	54,517	46,785	1,475	2,802	3,455
Okeechobee	1,803	631	370	637	165	7,612	2,091	1,975	2,791	755
Orange	8,180	3,339	2,379	1,915	547	40,812	19,765	11,551	6,268	3,228
Osceola	9,387	2,040	4,720	1,867	760	39,931	11,623	20,486	6,201	1,621
Pasco	6,219	1,251	2,238	1,223	1,507	29,551	6,598	10,539	4,118	8,296
Pinellas	592	351	128	94	19	3,309	2,315	671	276	47
Polk	13,636	3,667	5,479	3,585	905	54,459	13,599	23,784	11,978	5,098
Putnam	15,175	11,626	205	2,354	990	43,930	32,165	960	7,234	3,571
St. Johns	15,254	11,269	643	2,367	975	35,096	25,105	2,086	5,050	2,855
St. Lucie	1,098	1,037	61	--	--	3,990	3,650	340	--	--
Santa Rosa	21,435	16,438	1,064	2,558	1,375	85,510	69,405	5,728	6,653	3,724
Sarasota	1,655	1,201	--	107	347	6,112	5,179	--	560	373
Seminole	1,661	658	33	345	625	10,481	3,682	192	3,389	3,218
Sumter	8,356	2,813	2,229	1,461	1,853	29,494	7,103	11,070	4,690	6,631
Suwannee	6,432	3,830	12	486	2,104	19,052	9,779	--	2,004	7,269
Taylor	25,385	19,294	1,589	2,338	2,164	57,001	37,766	5,374	6,203	7,658
Union	5,979	4,548	359	945	127	14,370	10,520	747	2,787	316
Volusia	17,955	11,687	2,600	2,750	918	54,926	36,524	7,241	7,302	3,859
Wakulla	10,332	7,114	221	1,367	1,630	35,780	24,710	543	4,406	6,121
Walton	16,703	14,008	234	1,480	981	73,094	60,615	1,116	6,634	4,729
Washington	8,366	4,609	708	1,670	1,379	24,058	10,867	4,322	4,943	3,926
Total	628,306	427,177	60,371	80,733	60,025	1,980,110	1,249,121	248,948	249,528	232,513

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Table 9.--Average annual removals of growing stock and sawtimber on timberland, by county and species group, Florida, 1980-1986

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Alachua	20,148	18,380	—	354	1,414	46,376	41,182	—	1,353	3,841
Baker	14,152	14,028	66	—	58	40,577	40,577	—	—	—
Bay	12,015	11,891	—	—	124	25,953	25,953	—	—	—
Bradford	11,535	10,603	89	384	459	35,859	32,374	333	971	2,181
Brevard	2,937	2,937	—	—	—	11,922	11,922	—	—	—
Calhoun	9,499	9,044	—	271	184	28,800	27,327	—	806	667
Charlotte	1,358	1,320	—	—	38	2,751	2,751	—	—	—
Citrus	1,984	1,034	605	293	52	5,674	2,089	2,376	953	256
Clay	10,151	8,925	977	249	—	22,923	19,576	2,707	640	—
Collier	1,262	1,088	174	—	—	3,198	3,198	—	—	—
Columbia	16,539	14,425	984	609	521	48,133	41,125	2,785	2,721	1,502
De Soto	33	—	—	—	33	—	—	—	—	—
Dixie	9,380	6,406	513	921	1,540	14,913	9,883	1,453	1,691	1,886
Duval	13,533	12,077	203	911	342	33,450	30,641	532	1,467	810
Escambia	8,815	8,815	—	—	—	24,208	24,208	—	—	—
Flagler	12,925	11,958	888	79	—	28,117	24,515	3,602	—	—
Franklin	6,377	6,199	178	—	—	17,872	17,464	408	—	—
Gadsden	12,377	8,626	—	2,203	1,548	43,961	28,453	—	8,844	6,664
Gilchrist	14,075	11,676	770	176	1,453	23,934	16,315	3,165	544	3,910
Glades	56	56	—	—	—	—	—	—	—	—
Gulf	7,702	6,386	54	967	295	30,925	27,391	—	2,203	1,331
Hamilton	12,060	10,470	689	587	314	28,600	27,405	312	616	267
Hardee	3,467	2,552	850	65	—	13,635	11,052	2,583	—	—
Hendry	1,483	1,483	—	—	—	5,473	5,473	—	—	—
Hernando	1,470	986	—	59	425	5,838	4,292	—	222	1,324
Highlands	1,399	1,399	—	—	—	4,806	4,806	—	—	—
Hillsborough	2,386	699	1,028	301	358	8,203	1,294	4,906	821	1,182
Holmes	9,435	7,714	—	409	1,312	23,996	19,876	—	261	3,859
Indian River	—	—	—	—	—	—	—	—	—	—
Jackson	10,436	7,851	—	166	2,419	26,703	21,535	—	—	5,168
Jefferson	16,580	14,013	—	484	2,083	64,680	57,865	—	1,637	5,178
Lafayette	10,146	7,784	1,019	750	593	20,089	15,216	3,326	1,096	451
Lake	4,006	1,345	1,366	1,069	226	13,372	5,821	3,682	3,133	736
Lee	224	224	—	—	—	663	663	—	—	—
Leon	11,125	9,108	—	734	1,283	39,303	32,723	—	2,607	3,973
Levy	19,106	15,099	1,130	1,358	1,519	41,927	29,892	4,362	2,471	5,202
Liberty	11,919	9,940	200	856	923	37,721	29,764	188	3,055	4,714
Madison	11,842	6,554	345	2,723	2,220	34,244	16,398	1,515	10,506	5,825
Manatee	173	173	—	—	—	874	874	—	—	—
Marion	25,269	21,296	246	1,131	2,596	83,918	73,457	1,230	1,228	8,003
Martin	30	—	—	—	30	105	—	—	—	105
Nassau	17,565	13,634	—	2,832	1,099	46,601	38,779	—	4,910	2,912

Continued

Table 9.--Average annual removals of growing stock and sawtimber on timberland, by county and species group, Florida, 1980-1986--Continued

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Okaloosa	5,733	4,937	—	394	402	19,645	17,793	—	1,206	646
Okeechobee	—	—	—	—	—	—	—	—	—	—
Orange	5,064	2,497	2,226	237	104	19,106	10,346	7,234	1,115	411
Osceola	2,814	284	2,487	43	—	10,446	618	9,828	—	—
Pasco	3,200	2,427	773	—	—	15,270	12,551	2,719	—	—
Pinellas	775	190	585	—	—	3,090	919	2,171	—	—
Polk	6,227	1,503	3,917	807	—	15,264	5,913	8,854	497	—
Putnam	20,541	19,642	—	407	492	48,626	45,151	—	1,964	1,511
St. Johns	17,362	12,952	561	2,721	1,128	40,948	28,541	1,109	7,321	3,977
St. Lucie	319	157	—	—	162	1,003	800	—	—	203
Santa Rosa	14,675	14,278	273	124	—	43,479	42,717	762	—	—
Sarasota	771	771	—	—	—	2,573	2,573	—	—	—
Seminole	2,467	1,960	—	396	111	10,128	8,698	—	1,430	—
Sumter	4,012	1,340	2,161	316	195	11,307	2,015	6,807	1,477	1,008
Suwannee	14,437	14,013	73	118	233	20,240	19,837	403	—	—
Taylor	35,320	25,528	3,499	3,295	2,998	68,057	36,475	15,089	7,596	8,897
Union	9,634	9,634	—	—	—	20,586	20,586	—	—	—
Volusia	14,260	9,398	3,769	1,048	45	43,239	24,083	16,097	3,059	—
Wakulla	10,123	8,197	—	276	1,650	29,789	24,031	—	1,451	4,307
Walton	10,460	8,673	260	557	970	28,131	22,931	1,166	1,651	2,383
Washington	5,519	4,662	44	65	748	8,728	8,060	—	—	668
Total	540,687	441,241	33,002	31,745	34,699	1,449,952	1,158,767	111,704	83,523	95,958

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Table 10.--Area of timberland, by forest type and ownership class, Florida, 1987

Forest type	All ownerships	Ownership class				
		National forest	Other public	Forest industry	Forest industry-leased	Other private
	Acres					
Softwood types						
White pine-hemlock	—	—	—	—	—	—
Spruce-fir	—	—	—	—	—	—
Longleaf pine	950,946	178,595	239,202	144,353	5,607	383,189
Slash pine	5,198,978	315,002	332,016	2,276,953	432,229	1,842,778
Loblolly pine	578,472	4,667	28,965	253,749	32,537	258,554
Shortleaf pine	30,061	—	937	8,691	—	20,433
Virginia pine	—	—	—	—	—	—
Sand pine	610,277	192,574	96,304	138,507	—	182,892
Eastern redcedar	—	—	—	—	—	—
Pond pine	157,833	34,308	20,796	25,466	5,269	71,994
Spruce pine	—	—	—	—	—	—
Pitch pine	—	—	—	—	—	—
Table Mountain pine	—	—	—	—	—	—
Total	7,526,567	725,146	718,220	2,847,719	475,642	2,759,840
Hardwood types						
Oak-pine	1,210,769	71,762	127,719	311,009	23,707	676,572
Oak-hickory	1,053,868	8,225	68,123	202,232	15,772	759,516
Chestnut oak	—	—	—	—	—	—
Southern scrub oak	836,507	36,334	99,323	83,049	9,070	608,731
Oak-gum-cypress	4,271,134	148,688	430,761	1,306,927	152,604	2,232,154
Elm-ash-cottonwood	83,762	—	8,798	18,688	—	56,276
Maple-beech-birch	—	—	—	—	—	—
Total	7,456,040	265,009	734,724	1,921,905	201,153	4,333,249
All types	14,982,607	990,155	1,452,944	4,769,624	676,795	7,093,089

Table 11.--Area of timberland, by ownership and stocking classes of growing-stock trees, Florida, 1987

Ownership class	All classes	Stocking class (percent)[a]				
		>130	100-130	60-99	16.7-59	<16.7
	Acres					
National forest	990,155	31,098	200,020	367,325	297,647	94,065
Other public	1,452,944	105,223	260,960	476,252	459,367	151,142
Forest industry	4,769,624	275,116	1,469,078	1,654,816	934,849	435,765
Forest industry-leased	676,795	36,332	265,354	260,516	71,748	42,845
Other private	7,093,089	338,834	1,457,571	2,278,724	1,970,132	1,047,818
All ownerships	14,982,607	786,603	3,652,983	5,037,643	3,733,743	1,771,635

[a]See stocking standards on page 13.

Table 12.--Area of timberland, by forest type and stand-size class, Florida, 1987

Forest type	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
	Acres				
Softwood types					
White pine-hemlock	--	--	--	--	--
Spruce-fir	--	--	--	--	--
Longleaf pine	950,946	552,924	99,298	203,847	94,877
Slash pine	5,198,978	927,836	1,837,511	2,121,158	312,473
Loblolly pine	578,472	149,967	125,602	295,706	7,197
Shortleaf pine	30,061	21,370	8,691	--	--
Virginia pine	--	--	--	--	--
Sand pine	610,277	119,848	191,863	275,432	23,134
Eastern redcedar	--	--	--	--	--
Pond pine	157,833	61,138	66,900	13,187	16,608
Spruce pine	--	--	--	--	--
Pitch pine	--	--	--	--	--
Table Mountain pine	--	--	--	--	--
Total	7,526,567	1,833,083	2,329,865	2,909,330	454,289
Hardwood types					
Oak-pine	1,210,769	491,341	211,570	412,570	95,288
Oak-hickory	1,053,868	430,776	193,926	285,151	144,015
Chestnut oak	--	--	--	--	--
Southern scrub oak	836,507	42,678	29,445	131,623	632,761
Oak-gum-cypress	4,271,134	2,065,437	1,105,722	654,693	445,282
Elm-ash-cottonwood	83,762	63,260	12,270	8,232	--
Maple-beech-birch	--	--	--	--	--
Total	7,456,040	3,093,492	1,552,933	1,492,269	1,317,346
All types	14,982,607	4,926,575	3,882,798	4,401,599	1,771,635

Table 13.--Area of timberland, by stand-age and broad management classes, all ownerships, Florida, 1987

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
	Acres					
0-10	2,373,358	1,677,281	244,741	129,747	143,971	177,618
11-20	1,647,856	1,170,375	197,563	75,831	70,737	133,350
21-30	1,487,976	900,138	349,998	45,336	27,853	164,651
31-40	1,102,383	124,180	551,483	80,917	61,884	283,919
41-50	1,004,559	10,496	395,879	128,097	74,655	395,432
51-60	931,097	4,112	279,044	71,722	56,765	519,454
61-70	581,173	2,617	93,847	36,335	35,475	412,899
71-80	406,826	—	57,937	28,701	25,321	294,867
81+	503,086	—	18,188	16,458	37,631	430,809
No manageable stand	4,944,293	136,613	1,312,075	597,625	1,356,083	1,541,897
All classes	14,982,607	4,025,812	3,500,755	1,210,769	1,890,375	4,354,896

Table 14.--Area of timberland, by stand-age and broad management classes, public ownerships, Florida, 1987

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
	Acres					
0-10	221,798	145,496	48,491	8,051	17,155	2,605
11-20	167,846	115,961	35,644	4,768	1,227	10,246
21-30	179,501	93,506	62,993	7,043	--	15,959
31-40	193,980	19,759	136,669	18,555	3,526	15,371
41-50	206,323	4,661	162,654	--	4,086	34,922
51-60	272,405	4,112	175,777	14,866	2,056	75,594
61-70	157,796	--	54,399	5,547	3,188	94,662
71-80	112,297	--	39,197	--	6,669	66,431
81+	114,429	--	15,644	5,457	--	93,328
No manageable stand	816,724	17,673	310,730	135,094	174,098	179,129
All classes	2,443,099	401,168	1,042,198	199,481	212,005	588,247

Table 15.--Area of timberland, by stand-age and broad management classes, forest industry,[a] Florida, 1987

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
	Acres					
0-10	1,213,770	1,012,763	40,530	56,388	37,272	66,817
11-20	1,017,870	871,707	33,079	40,338	11,360	61,386
21-30	712,445	567,473	71,259	14,754	--	58,959
31-40	331,712	56,757	148,955	12,045	10,543	103,412
41-50	293,049	3,132	74,934	48,130	11,283	155,570
51-60	284,598	--	47,349	20,133	16,417	200,699
61-70	123,615	2,617	16,624	9,700	7,932	86,742
71-80	92,615	--	8,077	5,394	--	79,144
81+	145,694	--	--	11,001	--	134,693
No manageable stand	1,231,051	79,209	288,896	116,833	215,316	530,797
All classes	5,446,419	2,593,658	729,703	334,716	310,123	1,478,219

[a]Includes 676,795 acres of other private land under long-term lease.

Table 16.--Area of timberland, by stand-age and broad management classes, other private ownerships,[a] Florida, 1987

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
			Acres			
0-10	937,790	519,022	155,720	65,308	89,544	108,196
11-20	462,140	182,707	128,840	30,725	58,150	61,718
21-30	596,030	239,159	215,746	23,539	27,853	89,733
31-40	576,691	47,664	265,859	50,217	47,815	165,136
41-50	505,187	2,703	158,291	79,967	59,286	204,940
51-60	374,094	--	55,918	36,723	38,292	243,161
61-70	299,762	--	22,824	21,088	24,355	231,495
71-80	201,914	--	10,663	23,307	18,652	149,292
81+	242,963	--	2,544	--	37,631	202,788
No manageable stand	2,896,518	39,731	712,449	345,698	966,669	831,971
All classes	7,093,089	1,030,986	1,728,854	676,572	1,368,247	2,288,430

[a]Excludes 676,795 acres of other private land under long-term lease to forest industry.

Table 17.--Area of timberland, by broad management and stand-volume classes, Florida, 1987

Broad management class	All classes	Stand-volume class (cubic feet of growing stock per acre)				
		0-499	500-999	1000-1499	1500-1999	2000+
			Acres			
Pine plantation	4,025,812	2,540,961	604,664	381,911	269,220	229,056
Natural pine	3,500,755	1,344,210	736,397	477,207	395,708	547,233
Oak-pine	1,210,769	595,924	195,919	139,596	100,313	179,017
Upland hardwood	1,890,375	1,323,255	201,321	134,878	127,255	103,666
Lowland hardwood	4,354,896	1,237,064	629,176	590,044	430,607	1,468,005
All classes	14,982,607	7,041,414	2,367,477	1,723,636	1,323,103	2,526,977

Table 18.--Volume of growing stock on timberland, by broad management class, species group, and stand-age class, Florida, 1987

Broad management class and species group	All classes	No manageable stand	Stand-age class (years)								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
	Thousand cubic feet										
Pine plantation											
Softwood	2,013,045	15,977	35,353	651,[illegible]7	1,092,138	190,554	17,365	5,491	4,880	--	--
Hardwood	36,153	408	6,114	6,853	19,728	2,322	728	--	--	--	--
Total	2,049,198	16,385	41,467	658,140	1,111,866	192,876	18,093	5,491	4,880	--	--
Natural pine											
Softwood	3,485,205	481,068	53,561	97,806	377,921	845,636	759,210	513,260	184,885	134,153	37,705
Hardwood	191,095	15,789	3,780	6,337	17,659	37,928	61,884	15,139	12,434	16,427	3,718
Total	3,676,300	496,857	57,341	104,143	395,580	883,564	821,094	528,399	197,319	150,580	41,423
Oak-pine											
Softwood	775,130	195,878	16,235	20,006	32,579	85,087	189,250	101,097	53,327	47,009	34,662
Hardwood	368,983	42,641	4,266	4,685	17,700	51,932	108,614	63,318	36,857	21,999	16,971
Total	1,144,113	238,519	20,501	24,691	50,279	137,019	297,864	164,415	90,184	69,008	51,633
Upland hardwood											
Softwood	128,309	67,773	6,772	9,356	4,789	8,269	13,091	7,742	5,300	2,260	2,957
Hardwood	791,544	231,188	15,248	31,165	27,627	71,976	122,288	101,536	66,468	45,985	78,063
Total	919,853	298,961	22,020	40,521	32,416	80,245	135,379	109,278	71,768	48,245	81,020
Lowland hardwood											
Softwood	2,903,166	177,928	13,344	20,005	69,321	159,693	284,188	518,793	473,109	390,566	796,219
Hardwood	4,276,931	504,946	37,244	46,991	97,098	328,964	579,022	790,374	718,940	539,087	634,265
Total	7,180,097	682,874	50,588	66,996	166,419	488,657	863,210	1,309,167	1,192,049	929,653	1,430,484
All types											
Softwood	9,304,855	938,624	125,265	798,460	1,576,748	1,289,239	1,263,104	1,146,383	721,501	573,988	871,543
Hardwood	5,664,706	794,972	66,652	96,031	179,812	493,122	872,536	970,367	834,699	623,498	733,017
Total	14,969,561	1,733,596	191,917	894,491	1,756,560	1,782,361	2,135,640	2,116,750	1,556,200	1,197,486	1,604,560

Table 19.--Average net annual growth of growing stock on timberland, by broad management class, species group, and stand-age class, Florida, 1980-1986

Broad management class[a] and species group	All classes	No manageable stand	Stand-age class[a] (years)								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
	Thousand cubic feet										
Pine plantation											
Softwood	247,242	2,197	16,432	117,170	98,666	11,143	1,074	428	132	--	--
Hardwood	3,016	5	127	1,125	1,444	290	25	--	--	--	--
Total	250,258	2,202	16,559	118,295	100,110	11,433	1,099	428	132	--	--
Natural pine											
Softwood	135,293	18,843	3,352	8,435	24,359	36,790	23,134	12,529	4,564	2,551	736
Hardwood	7,753	876	95	218	994	1,690	2,535	454	348	395	148
Total	143,046	19,719	3,447	8,653	25,353	38,480	25,669	12,983	4,912	2,946	884
Oak-pine											
Softwood	29,801	7,887	1,698	2,454	1,938	3,141	6,685	2,871	1,368	1,056	703
Hardwood	12,065	1,961	146	586	858	2,132	3,595	1,375	661	398	353
Total	41,866	9,848	1,844	3,040	2,796	5,273	10,280	4,246	2,029	1,454	1,056
Upland hardwood											
Softwood	5,881	3,249	517	547	220	321	474	196	190	73	94
Hardwood	21,687	6,440	809	1,935	1,364	2,256	3,090	2,332	1,344	832	1,285
Total	27,568	9,689	1,326	2,482	1,584	2,577	3,564	2,528	1,534	905	1,379
Lowland hardwood											
Softwood	69,331	6,239	620	862	2,161	4,822	7,489	12,620	11,682	8,101	14,735
Hardwood	96,237	14,350	1,152	2,732	4,305	9,247	14,488	17,140	14,376	9,533	8,914
Total	165,568	20,589	1,772	3,594	6,466	14,069	21,977	29,760	26,058	17,634	23,649
All types											
Softwood	487,548	38,415	22,619	129,468	127,344	56,217	38,856	28,644	17,936	11,781	16,268
Hardwood	140,758	23,632	2,329	6,596	8,965	15,615	23,733	21,301	16,729	11,158	10,700
Total	628,306	62,047	24,948	136,064	136,309	71,832	62,589	49,945	34,665	22,939	26,968

[a]Classifications at the end of the remeasurement period.

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Table 20.--Average annual removals of growing stock on timberland, by broad management class, species group, and stand-age class, Florida, 1980-1986

Broad management class[a] and species group	All classes	No manageable stand	Stand-age class[a] (years)								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
	Thousand cubic feet										
Pine plantation											
Softwood	189,158	1,802	1,775	82,177	96,173	6,700	--	531	--	--	--
Hardwood	971	--	--	287	453	231	--	--	--	--	--
Total	190,129	1,802	1,775	82,464	96,626	6,931	--	531	--	--	--
Natural pine											
Softwood	219,215	20,090	1,659	9,540	42,253	72,687	42,791	19,382	4,960	1,646	4,207
Hardwood	5,468	532	68	498	903	1,602	1,459	264	--	63	79
Total	224,683	20,622	1,727	10,038	43,156	74,289	44,250	19,646	4,960	1,709	4,286
Oak-pine											
Softwood	23,226	7,692	307	791	3,338	4,034	1,343	3,949	1,109	513	150
Hardwood	8,725	1,758	285	51	2,077	1,480	1,136	1,938	--	--	--
Total	31,951	9,450	592	842	5,415	5,514	2,479	5,887	1,109	513	150
Upland hardwood											
Softwood	4,991	2,951	450	118	368	184	920	--	--	--	--
Hardwood	14,393	3,241	702	475	2,139	2,636	1,746	1,208	659	629	958
Total	19,384	6,192	1,152	593	2,507	2,820	2,666	1,208	659	629	958
Lowland hardwood											
Softwood	37,653	2,265	660	373	2,594	4,319	3,328	7,278	7,714	5,168	3,954
Hardwood	36,887	6,659	197	592	1,347	5,918	7,693	4,364	6,465	3,537	115
Total	74,540	8,924	857	965	3,941	10,237	11,021	11,642	14,179	8,705	4,069
All types											
Softwood	474,243	34,800	4,851	92,999	144,726	87,924	48,382	31,140	13,783	7,327	8,311
Hardwood	66,444	12,190	1,252	1,903	6,919	11,867	12,034	7,774	7,124	4,229	1,152
Total	540,687	46,990	6,103	94,902	151,645	99,791	60,416	38,914	20,907	11,556	9,463

[a]Classifications before timber removals.

Table 21.--Merchantable volume of live trees and growing stock on timberland, by forest-type and species groups, Florida, 1987

Forest-type group	Live trees					Growing stock				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
White pine-hemlock	--	--	--	--	--	--	--	--	--	--
Spruce-fir	--	--	--	--	--	--	--	--	--	--
Longleaf-slash pine	4,777,961	4,479,843	66,982	102,075	129,061	4,688,049	4,469,874	61,512	92,375	64,288
Loblolly-shortleaf pine	1,076,715	976,077	2,476	32,245	65,917	1,037,449	964,388	2,476	27,955	42,630
Oak-pine	1,282,527	657,021	126,790	240,595	258,121	1,144,113	652,687	122,443	207,805	161,178
Oak-hickory	1,320,051	128,150	3,863	197,388	990,650	919,853	126,264	2,045	176,879	614,665
Oak-gum-cypress	8,112,350	334,731	2,650,868	3,341,076	1,785,675	7,001,587	331,889	2,559,413	2,856,438	1,253,847
Elm-ash-cottonwood	212,256	1,356	10,508	94,409	105,983	178,510	1,356	10,508	79,673	86,973
Maple-beech-birch	--	--	--	--	--	--	--	--	--	--
All types	16,781,860	6,577,178	2,861,487	4,007,788	3,335,407	14,969,561	6,546,458	2,758,397	3,441,125	2,223,581

Table 22.--Area of timberland treated or disturbed annually and retained in timberland, by treatment or disturbance and ownership class, Florida, 1980 to 1987

Treatment or disturbance	All ownerships	Ownership class			
		Public	Forest industry	Forest industry-leased	Other private
	Acres[a]				
Final harvest	296,052	28,483	139,159	21,337	107,073
Partial harvest[b]	37,181	6,026	9,493	3,446	18,216
Commercial thinning	45,454	13,156	16,519	3,734	12,045
Other stand improvement	6,524	1,006	1,915	—	3,603
Site preparation	196,418	19,847	112,337	19,627	44,607
Artificial regeneration[c]	196,470	15,999	97,700	19,728	63,043
Natural regeneration[c]	75,589	7,990	13,809	1,503	52,287
Other treatment	13,476	2,483	1,722	—	9,271
Natural disturbance	113,166	12,707	33,302	4,022	63,135

[a]Since some acres experience more than one treatment or disturbance, there are no column totals.

[b]Includes high grading and some selective cutting.

[c]Includes establishment of trees for timber production on forest and nonforest land.

Table 23.--Area of timberland treated or disturbed annually and retained in timberland, by treatment or disturbance and broad management class, Florida, 1980 to 1987

Treatment or disturbance	All classes	Broad management class[a]				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
	Acres[b]					
Final harvest	296,052	93,319	132,573	21,567	19,177	29,416
Partial harvest[c]	37,181	1,751	11,865	5,018	1,700	16,847
Commercial thinning	45,454	28,012	15,831	322	299	990
Other stand improvement	6,524	1,418	3,583	--	774	749
Site preparation	196,418	65,690	83,930	11,745	21,866	13,187
Other treatment	13,476	670	4,668	1,872	3,060	3,206
Natural disturbance	113,166	30,756	33,763	7,956	8,650	32,041

[a]Classification before treatment or disturbance.

[b]Since some acres experience more than one treatment or disturbance, there are no column totals.

[c]Includes high grading and some selective cutting.

Table 24.--Area of timberland regenerated annually, by type of regeneration and broad management class, Florida, 1980 to 1987

Type of regeneration	All classes	Broad management class[a]				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
	Acres					
Artificial regeneration following harvest	118,374	114,040	—	3,253	717	364
Natural regeneration following harvest	36,476	322	9,079	2,898	9,377	14,800
Other artificial regeneration on forest land	51,098	46,292	—	3,850	592	364
Other natural regeneration on forest land	25,896	—	13,981	4,673	2,150	5,092
Artificial regeneration on nonforest land	26,998	26,329	—	669	—	—
Natural reversion of nonforest land	13,217	—	9,085	1,369	1,291	1,472
Total	272,059	186,983	32,145	16,712	14,127	22,092

[a]Classification after regeneration.

Table 25.--Area of timberland, by treatment opportunity and broad management classes, Florida, 1987

Treatment opportunity class	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
	Acres					
Salvage	33,548	5,402	16,321	3,119	—	8,706
Harvest	545,274	2,617	89,033	39,862	57,694	356,068
Commercial thinning	468,451	398,362	49,488	2,759	—	17,842
Other stand improvement	605,925	63,389	174,327	77,635	76,882	213,692
Stand conversion	141,466	10,608	8,933	22,394	33,935	65,596
Regeneration	4,698,887	133,671	1,300,957	582,483	1,353,142	1,328,634
Stands in relatively good condition	7,436,549	3,408,821	1,845,655	442,887	365,781	1,373,405
Adverse sites[a]	1,052,507	2,942	16,041	39,630	2,941	990,953
All classes	14,982,607	4,025,812	3,500,755	1,210,769	1,890,375	4,354,896

[a]Areas where management opportunities are severely limited because of steep slopes or poor drainage.

Table 26.--Area of timberland, by treatment opportunity and ownership classes, Florida, 1987

Treatment opportunity class	All ownerships	Ownership class			
		Public	Forest industry	Forest industry-leased	Other private
			Acres		
Salvage	33,548	6,306	12,141	--	15,101
Harvest	545,274	123,422	124,688	3,707	293,457
Commercial thinning	468,451	17,985	217,728	79,762	152,976
Other stand improvement	605,925	89,686	144,734	36,688	334,817
Stand conversion	141,466	15,632	42,598	6,863	76,373
Regeneration	4,698,887	780,681	1,051,003	85,727	2,781,476
Stands in relatively good condition	7,436,549	1,212,009	2,835,369	441,885	2,947,286
Adverse sites[a]	1,052,507	197,378	341,363	22,163	491,603
All classes	14,982,607	2,443,099	4,769,624	676,795	7,093,089

[a]Areas where management opportunities are severely limited because of steep slopes or poor drainage.

Table 27.--Merchantable volume of live trees and growing stock on timberland, by ownership class and species group, Florida, 1987

Ownership class	Live trees					Growing stock				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
National forest	1,169,172	763,768	127,374	205,486	72,544	1,087,057	760,049	113,042	172,248	41,718
Other public	2,194,242	844,062	332,336	581,653	436,191	1,906,454	839,926	322,590	483,890	260,048
Forest industry	4,515,128	1,985,064	731,644	1,148,786	649,634	4,163,590	1,978,477	708,266	1,002,020	474,827
Forest industry-leased	522,952	316,033	72,209	94,472	40,238	500,125	315,129	70,763	85,607	28,626
Other private	8,380,366	2,668,251	1,597,924	1,977,391	2,136,800	7,312,335	2,652,877	1,543,736	1,697,360	1,418,362
All ownerships	16,781,860	6,577,178	2,861,487	4,007,788	3,335,407	14,969,561	6,546,458	2,758,397	3,441,125	2,223,581

Table 28.--Volume of sawtimber on timberland, by ownership class and species group, Florida, 1987

Ownership class	Small sawtimber[a]					Large sawtimber[b]				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand board feet									
National forest	2,402,718	2,028,956	199,005	132,265	42,492	1,206,460	627,695	180,436	305,400	92,929
Other public	3,440,990	2,163,303	524,120	506,690	246,877	3,492,923	1,168,609	683,966	1,004,307	636,041
Forest industry	5,731,695	3,019,937	1,225,929	1,028,927	456,902	4,701,498	1,138,755	981,145	1,482,038	1,099,560
Forest industry-leased	533,703	307,782	125,994	75,722	24,205	401,200	189,123	44,249	88,159	79,669
Other private	11,831,040	5,921,469	2,768,425	1,868,568	1,272,578	11,124,955	3,258,781	1,811,528	2,557,564	3,497,082
All ownerships	23,940,146	13,441,447	4,843,473	3,612,172	2,043,054	20,927,036	6,382,963	3,701,324	5,437,468	5,405,281

[a]Volume of sawtimber trees less than 15.0 inches at d.b.h.

[b]Volume of sawtimber trees 15.0 inches and larger at d.b.h.

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Table 29.--Average net annual growth and removals of growing stock on timberland, by ownership class and species group, Florida, 1980-1986

Ownership class	Net annual growth					Annual timber removals				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
National forest	35,659	30,010	1,364	3,332	953	32,031	31,980	--	51	--
Other public	58,727	35,601	6,795	9,305	7,026	17,513	16,176	352	391	594
Forest industry	229,825	180,479	14,145	22,997	12,204	219,001	183,324	7,859	13,533	14,285
Forest industry-leased	36,512	31,919	1,243	2,557	793	37,206	28,277	4,616	2,856	1,457
Other private	267,583	149,168	36,824	42,542	39,049	234,936	181,484	20,175	14,914	18,363
All ownerships	628,306	427,177	60,371	80,733	60,025	540,687	441,241	33,002	31,745	34,699

Table 30.--Average net annual growth and removals of sawtimber on timberland, by ownership class and species group, Florida, 1980-1986

Ownership class	Net annual growth					Annual timber removals				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand board feet									
National forest	111,896	93,716	5,437	8,279	4,464	99,360	99,360	--	--	--
Other public	240,932	148,504	31,550	31,327	29,551	52,199	48,396	888	1,463	1,452
Forest industry	543,973	381,138	53,629	61,912	47,294	550,265	444,071	29,077	35,399	41,718
Forest industry-leased	76,969	65,576	4,732	4,623	2,038	74,062	51,131	12,269	7,105	3,557
Other private	1,006,340	560,187	153,600	143,387	149,166	674,066	515,809	69,470	39,556	49,231
All ownerships	1,980,110	1,249,121	248,948	249,528	232,513	1,449,952	1,158,767	111,704	83,523	95,958

Table 31.--Volume of timber on timberland, by class of timber and species group, Florida, 1987

Class of timber	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
			Thousand cubic feet		
Sawtimber trees					
Saw-log portion	8,517,216	3,670,993	1,739,694	1,749,476	1,357,053
Upper-stem portion[a]	1,185,172	390,165	240,269	342,256	212,482
Total	9,702,388	4,061,158	1,979,963	2,091,732	1,569,535
Poletimber trees	5,267,173	2,485,300	778,434	1,349,393	654,046
All growing-stock trees	14,969,561	6,546,458	2,758,397	3,441,125	2,223,581
Rough trees					
Sawtimber size	831,268	17,546	32,193	222,139	559,390
Poletimber size	769,982	12,224	37,667	256,898	463,193
Total	1,601,250	29,770	69,860	479,037	1,022,583
Rotten trees					
Sawtimber size	186,603	950	30,245	74,234	81,174
Poletimber size	24,446	—	2,985	13,392	8,069
Total	211,049	950	33,230	87,626	89,243
Salvable dead trees					
Sawtimber size	24,405	13,441	2,552	4,255	4,157
Poletimber size	14,360	8,052	1,986	2,485	1,837
Total	38,765	21,493	4,538	6,740	5,994
Total, all timber	16,820,625	6,598,671	2,866,025	4,014,528	3,341,401

[a]Includes cull sections in the saw-log portion.

Table 32.--Number of live trees on timberland, by species and diameter class, Florida, 1987

Species	All classes	Diameter class (inches at breast height)											
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand trees												
Softwood													
Longleaf pine	171,291	56,832	28,985	18,452	17,403	19,211	16,585	9,229	3,316	908	257	110	3
Slash pine	1,624,998	497,005	507,133	342,978	165,846	61,040	27,537	13,271	6,082	2,653	948	494	11
Shortleaf pine	8,408	2,243	2,003	1,084	1,123	693	495	428	207	80	18	30	4
Loblolly pine	176,227	71,917	45,169	26,595	13,209	6,956	4,285	3,000	2,064	1,458	803	745	26
Pond pine	32,172	6,501	8,070	5,646	5,412	2,716	1,954	1,049	507	148	106	63	--
Virginia pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Pitch pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	6,198	2,582	1,308	1,165	208	273	221	141	111	89	46	54	--
Sand pine	257,939	140,856	54,662	33,217	17,113	6,569	3,671	1,090	525	171	65	--	--
Eastern white pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Eastern hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	75,131	20,821	14,386	11,680	8,782	6,948	4,108	2,843	1,963	1,321	928	1,080	271
Pondcypress	732,893	331,640	163,261	96,371	61,563	38,376	20,764	11,569	4,751	2,377	958	1,126	137
Cedars	35,396	20,010	5,506	3,094	2,595	1,799	1,012	681	428	133	80	58	--
Total softwoods	3,120,653	1,150,407	830,483	540,282	293,254	144,581	80,632	43,301	19,954	9,338	4,209	3,760	452
Hardwood													
Select white oaks	9,581	4,242	2,463	1,102	548	416	274	250	118	82	46	36	4
Select red oaks	551	331	--	--	127	41	--	18	--	11	18	5	--
Chestnut oak	--	--	--	--	--	--	--	--	--	--	--	--	--
Other white oaks	270,686	160,256	55,432	18,222	11,051	6,987	4,719	3,470	2,758	2,244	1,404	3,064	1,079
Other red oaks	714,394	478,258	110,807	50,241	26,767	17,998	12,164	6,722	4,630	2,375	1,661	2,289	482
Hickory	35,248	19,117	6,817	3,239	1,866	1,148	934	860	553	294	192	224	4
Yellow birch	--	--	--	--	--	--	--	--	--	--	--	--	--
Hard maple	5,588	3,567	523	528	420	133	197	77	49	33	21	40	--
Soft maple	280,310	177,765	49,106	19,455	12,828	8,285	5,437	3,151	2,103	1,227	432	491	30
Beech	1,703	324	824	111	133	--	102	60	29	36	48	32	4
Sweetgum	220,900	126,081	44,617	19,706	10,530	8,740	5,196	2,818	1,588	835	417	346	26
Tupelo and blackgum	758,315	410,531	173,910	72,407	41,386	22,542	14,823	9,382	5,281	3,167	1,932	2,589	365
Ash	293,039	172,962	63,747	28,265	11,038	7,234	4,265	2,134	1,584	844	498	410	58
Cottonwood	12	--	--	--	--	--	--	--	--	--	--	12	--
Basswood	4,584	3,285	322	224	249	107	88	163	66	36	36	8	--
Yellow-poplar	15,205	7,479	2,551	2,365	760	521	695	282	266	77	89	116	4
Bay and magnolia	584,896	348,081	126,739	52,090	26,053	14,297	8,737	4,026	2,223	1,307	632	665	46
Black cherry	21,344	14,446	4,499	1,214	673	201	160	107	15	34	--	--	--
Black walnut	162	162	--	--	--	--	--	--	--	--	--	--	--
Sycamore	394	--	156	--	51	--	81	19	14	47	8	14	4
Black locust	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm	45,147	23,887	10,064	4,861	2,332	1,711	884	640	421	154	106	83	4
Other eastern hardwoods	1,129,134	843,052	191,150	58,511	21,005	9,548	2,841	1,548	563	378	218	263	57
Total hardwoods	4,391,193	2,793,826	843,727	332,541	167,817	99,909	61,597	35,722	22,261	13,181	7,758	10,687	2,167
All species	7,511,846	3,944,233	1,674,210	872,823	461,071	244,490	142,229	79,023	42,215	22,519	11,967	14,447	2,619

Table 33.--Number of growing-stock trees on timberland, by species and diameter class, Florida, 1987

Species	All classes	Diameter class (inches at breast height)											
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand trees												
Softwood													
Longleaf pine	166,215	52,697	28,673	18,120	17,339	19,131	16,486	9,211	3,291	897	257	110	3
Slash pine	1,590,867	472,325	499,889	341,533	165,484	60,750	27,505	13,250	6,053	2,642	938	487	11
Shortleaf pine	8,082	1,917	2,003	1,084	1,123	693	495	428	207	80	18	30	4
Loblolly pine	170,425	67,820	44,158	26,459	12,893	6,753	4,253	3,000	2,064	1,458	803	738	26
Pond pine	27,607	3,924	6,668	5,325	5,291	2,646	1,880	1,049	507	148	106	63	--
Virginia pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Pitch pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	5,191	1,613	1,308	1,165	208	273	221	118	96	89	46	54	--
Sand pine	249,304	134,466	53,721	32,814	16,622	6,309	3,570	1,070	496	171	65	--	--
Eastern white pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Eastern hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	68,381	16,536	12,769	11,577	8,613	6,727	4,057	2,806	1,912	1,272	901	1,004	207
Pondcypress	646,479	276,160	147,301	89,092	57,522	36,569	20,105	11,064	4,512	2,152	901	994	107
Cedars	30,546	17,710	4,293	2,545	2,085	1,722	864	645	411	133	80	58	--
Total softwoods	2,963,097	1,045,168	800,783	529,714	287,180	141,573	79,436	42,641	19,549	9,042	4,115	3,538	358
Hardwood													
Select white oaks	8,177	3,266	2,151	1,102	472	416	242	250	118	82	46	28	4
Select red oaks	380	160	--	--	127	41	--	18	--	11	18	5	--
Chestnut oak	--	--	--	--	--	--	--	--	--	--	--	--	--
Other white oaks	52,868	24,583	11,388	4,149	3,768	1,964	1,114	1,249	1,141	825	657	1,472	558
Other red oaks	489,056	304,155	82,582	40,449	22,188	14,969	10,147	5,517	3,765	1,989	1,319	1,661	315
Hickory	20,377	8,344	4,001	2,887	1,374	1,025	848	785	491	247	174	197	4
Yellow birch	--	--	--	--	--	--	--	--	--	--	--	--	--
Hard maple	1,588	338	352	223	298	133	31	77	49	33	21	33	--
Soft maple	136,378	72,619	28,766	11,648	8,471	5,673	3,905	2,295	1,437	891	342	309	22
Beech	958	161	334	111	133	--	74	60	13	12	38	18	4
Sweetgum	155,401	75,134	34,192	17,545	9,685	8,244	4,920	2,688	1,500	796	399	286	12
Tupelo and blackgum	439,990	172,073	124,485	59,048	34,017	19,100	12,240	8,021	4,549	2,639	1,630	1,981	207
Ash	106,068	50,155	22,606	14,256	6,540	4,874	3,373	1,555	1,220	725	412	319	33
Cottonwood	6	--	--	--	--	--	--	--	--	--	--	6	--
Basswood	2,232	1,299	160	224	109	107	56	143	66	24	36	8	--
Yellow-poplar	11,618	4,436	2,228	2,233	760	521	644	282	251	77	71	111	4
Bay and magnolia	360,576	190,792	83,821	39,469	20,096	11,814	7,078	3,312	1,986	1,097	508	561	42
Black cherry	13,355	7,926	3,355	1,102	498	201	133	102	15	23	--	--	--
Black walnut	--	--	--	--	--	--	--	--	--	--	--	--	--
Sycamore	394	--	156	--	51	--	81	19	14	47	8	14	4
Black locust	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm	23,585	10,278	5,917	2,543	1,887	1,030	676	587	365	136	89	73	4
Other eastern hardwoods	28,758	18,686	5,043	2,144	1,222	725	334	313	121	119	35	16	--
Total hardwoods	1,851,765	944,405	411,537	199,133	111,696	70,837	45,896	27,273	17,101	9,773	5,803	7,098	1,213
All species	4,814,862	1,989,573	1,212,320	728,847	398,876	212,410	125,332	69,914	36,650	18,815	9,918	10,636	1,571

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Table 34.--Merchantable volume of live trees on timberland, by species and diameter class, Florida, 1987

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	29.0 and larger
	Thousand cubic feet										
Softwood											
Longleaf pine	1,183,944	53,756	122,429	245,734	319,724	256,301	119,726	41,246	14,886	9,572	570
Slash pine	4,008,701	861,447	1,039,845	725,516	532,611	376,995	230,795	132,453	62,466	44,378	2,195
Shortleaf pine	59,797	3,484	8,171	9,078	9,362	12,723	8,233	3,927	1,592	2,519	708
Loblolly pine	679,440	58,720	72,844	75,605	84,638	87,933	85,049	77,705	56,296	75,910	4,740
Pond pine	172,714	13,847	29,949	29,685	35,068	26,448	18,125	7,224	6,833	5,535	--
Virginia pine	--	--	--	--	--	--	--	--	--	--	--
Pitch pine	--	--	--	--	--	--	--	--	--	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	38,533	4,302	1,697	3,494	4,359	4,187	4,962	5,486	3,430	6,616	--
Sand pine	434,049	109,578	117,455	83,238	67,091	27,976	17,834	7,158	3,719	--	--
Eastern white pine	--	--	--	--	--	--	--	--	--	--	--
Eastern hemlock	--	--	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	614,401	36,642	57,459	76,898	70,433	67,798	65,128	57,259	50,753	84,839	47,192
Pondcypress	2,142,784	298,923	403,996	430,559	352,279	272,051	148,829	93,284	47,569	77,681	17,613
Cedars	104,302	8,433	13,633	19,344	16,317	16,313	14,362	6,783	4,508	4,609	--
Total softwoods	9,438,665	1,449,132	1,867,478	1,699,151	1,491,882	1,148,725	713,043	432,525	252,052	311,659	73,018
Hardwood											
Select white oaks	36,049	2,826	2,884	4,641	4,549	6,597	4,656	3,690	3,233	2,203	770
Select red oaks	4,161	--	682	333	--	541	--	481	1,275	849	--
Chestnut oak	--	--	--	--	--	--	--	--	--	--	--
Other white oaks	853,011	40,784	46,149	53,588	55,628	64,927	72,654	74,407	62,228	212,145	170,501
Other red oaks	1,443,987	136,098	159,595	194,282	202,669	160,572	147,258	101,392	88,349	179,635	74,137
Hickory	133,846	7,433	10,167	11,509	16,885	21,740	19,832	13,626	12,060	19,874	720
Yellow birch	--	--	--	--	--	--	--	--	--	--	--
Hard maple	17,020	1,231	2,038	1,679	2,953	2,051	1,799	1,397	1,090	2,782	--
Soft maple	554,291	54,932	73,146	83,811	90,457	74,282	64,832	47,995	24,781	35,996	4,059
Beech	12,574	205	1,086	--	1,606	1,507	790	855	2,834	2,867	824
Sweetgum	556,167	46,734	64,402	101,319	101,572	79,068	61,271	42,331	26,647	29,448	3,375
Tupelo and blackgum	1,737,715	193,344	237,736	233,676	241,940	224,595	168,095	126,279	94,596	170,989	46,465
Ash	483,151	63,352	61,888	75,840	74,526	50,405	51,419	38,727	27,409	32,196	7,389
Cottonwood	753	--	--	--	--	--	--	--	--	753	--
Basswood	14,098	600	1,392	1,289	1,342	3,411	2,185	1,055	2,192	632	--
Yellow-poplar	70,328	8,308	5,297	6,325	12,587	7,351	10,699	4,020	5,513	9,629	599
Bay and magnolia	904,101	140,444	149,095	150,908	147,263	97,608	73,869	55,684	33,891	49,315	6,024
Black cherry	16,874	3,479	4,173	2,068	2,881	2,445	474	1,354	--	--	--
Black walnut	--	--	--	--	--	--	--	--	--	--	--
Sycamore	7,893	--	270	--	1,406	519	623	2,461	576	1,301	737
Black locust	--	--	--	--	--	--	--	--	--	--	--
Elm	108,660	11,181	12,390	17,044	14,840	16,028	14,506	7,313	6,698	7,917	743
Other eastern hardwoods	388,516	105,266	87,722	70,350	36,120	28,772	14,037	13,555	9,885	15,938	6,871
Total hardwoods	7,343,195	816,217	920,112	1,008,662	1,009,224	842,419	708,999	536,622	403,257	774,469	323,214
All species	16,781,860	2,265,349	2,787,590	2,707,813	2,501,100	1,991,144	1,422,042	969,147	655,309	1,086,128	396,232

Table 35.--Volume of growing stock on timberland, by species and diameter class, Florida, 1987

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	29.0 and larger
	Thousand cubic feet										
Softwood											
Longleaf pine	1,179,882	53,231	122,121	245,016	318,618	255,945	118,993	40,930	14,886	9,572	570
Slash pine	3,998,887	858,696	1,037,771	723,406	532,216	376,588	229,953	131,909	62,194	43,959	2,195
Shortleaf pine	59,797	3,484	8,171	9,078	9,362	12,723	8,233	3,927	1,592	2,519	708
Loblolly pine	674,808	58,599	71,483	73,525	84,343	87,933	85,049	77,705	56,296	75,135	4,740
Pond pine	170,091	13,250	29,461	28,980	34,235	26,448	18,125	7,224	6,833	5,535	--
Virginia pine	--	--	--	--	--	--	--	--	--	--	--
Pitch pine	--	--	--	--	--	--	--	--	--	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	37,398	4,302	1,697	3,494	4,359	3,665	4,349	5,486	3,430	6,616	--
Sand pine	425,595	108,095	114,939	81,256	65,724	27,687	17,017	7,158	3,719	--	--
Eastern white pine	--	--	--	--	--	--	--	--	--	--	--
Eastern hemlock	--	--	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	593,824	56,394	56,639	75,083	69,957	67,407	64,129	56,011	50,011	81,623	36,570
Pondcypress	2,066,455	281,679	384,756	416,831	345,278	266,487	145,839	89,296	46,510	73,862	15,917
Cedars	98,118	7,353	11,613	18,898	14,723	15,677	13,954	6,783	4,508	4,609	--
Total softwoods	9,304,855	1,425,083	1,838,651	1,675,567	1,478,815	1,140,560	705,641	426,429	249,979	303,430	60,700
Hardwood											
Select white oaks	35,359	2,826	2,725	4,641	4,140	6,597	4,656	3,690	3,233	2,081	770
Select red oaks	4,161	--	682	333	--	541	--	481	1,275	849	--
Chestnut oak	--	--	--	--	--	--	--	--	--	--	--
Other white oaks	405,502	10,042	17,284	17,605	15,788	26,835	34,431	32,944	33,076	118,302	99,195
Other red oaks	1,233,329	112,710	138,746	169,592	176,570	140,069	129,351	90,222	75,023	144,603	56,443
Hickory	120,992	6,816	8,069	10,374	15,373	20,098	18,012	12,335	11,111	18,084	720
Yellow birch	--	--	--	--	--	--	--	--	--	--	--
Hard maple	13,260	491	1,456	1,679	584	2,051	1,799	1,397	1,090	2,713	--
Soft maple	412,419	34,298	52,633	61,645	69,725	57,251	48,681	38,779	20,473	25,504	3,430
Beech	10,705	205	1,086	--	1,416	1,507	551	406	2,565	2,145	824
Sweetgum	527,787	41,939	60,492	97,343	97,491	76,545	58,745	41,169	25,756	26,170	2,137
Tupelo and blackgum	1,519,532	161,995	204,158	206,760	211,479	203,047	151,731	113,017	85,168	146,941	35,236
Ash	378,894	36,678	43,942	56,133	64,361	42,409	43,433	35,008	24,494	27,898	4,538
Cottonwood	294	--	--	--	--	--	--	--	--	294	--
Basswood	12,967	600	832	1,289	1,133	3,142	2,185	962	2,192	632	--
Yellow-poplar	67,610	7,942	5,297	6,325	12,215	7,351	9,962	4,020	4,734	9,165	599
Bay and magnolia	765,094	109,405	120,015	130,465	123,811	83,619	68,635	49,443	29,645	44,268	5,788
Black cherry	14,395	3,246	3,035	2,068	2,371	2,445	474	756	--	--	--
Black walnut	--	--	--	--	--	--	--	--	--	--	--
Sycamore	7,893	--	270	--	1,406	519	623	2,461	576	1,301	737
Black locust	--	--	--	--	--	--	--	--	--	--	--
Elm	88,113	5,861	10,545	11,535	12,173	15,129	12,808	6,631	5,728	6,960	743
Other eastern hardwoods	46,400	5,618	6,551	7,162	6,384	7,996	3,915	5,618	2,234	922	--
Total hardwoods	5,664,706	540,672	677,818	784,949	816,420	697,151	589,992	439,339	328,373	578,832	211,160
All species	14,969,561	1,965,755	2,516,469	2,460,516	2,295,235	1,837,711	1,295,633	865,768	578,352	882,262	271,860

Table 36.--Volume of sawtimber on timberland, by species and diameter class, Florida, 1987

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand board feet								
Softwood									
Longleaf pine	4,993,544	998,369	1,530,397	1,368,871	684,588	248,643	94,326	64,246	4,104
Slash pine	9,903,469	2,650,020	2,446,525	1,975,176	1,313,956	804,335	398,594	298,702	16,161
Shortleaf pine	243,028	34,536	42,086	65,430	46,191	23,407	9,993	16,315	5,070
Loblolly pine	2,945,172	262,263	381,799	453,428	481,714	468,386	356,309	506,643	34,630
Pond pine	627,033	110,591	157,832	136,282	101,567	42,621	42,416	35,724	--
Virginia pine	--	--	--	--	--	--	--	--	--
Pitch pine	--	--	--	--	--	--	--	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--
Spruce pine	173,171	14,162	20,412	18,981	24,437	31,974	20,763	42,442	--
Sand pine	938,993	318,363	308,659	147,265	97,728	43,428	23,550	--	--
Eastern white pine	--	--	--	--	--	--	--	--	--
Eastern hemlock	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--
Baldcypress	2,354,560	222,717	266,556	294,096	305,955	287,211	269,198	473,591	235,236
Pondcypress	5,796,360	1,307,456	1,346,896	1,184,985	709,296	462,652	253,604	430,253	101,216
Cedars	393,877	73,362	67,381	80,022	76,628	39,820	27,219	29,445	--
Total softwoods	28,369,207	5,991,841	6,568,543	5,724,536	3,842,060	2,452,477	1,495,972	1,897,361	396,417
Hardwood									
Select white oaks	113,697	--	14,100	26,368	21,047	18,258	16,946	11,830	5,148
Select red oaks	16,234	--	--	2,299	--	2,591	6,532	4,812	--
Chestnut oak	--	--	--	--	--	--	--	--	--
Other white oaks	1,789,358	--	55,129	106,808	149,563	150,556	159,585	610,533	557,184
Other red oaks	3,938,280	--	672,725	610,448	615,715	457,601	399,295	828,441	354,055
Hickory	437,112	--	52,775	81,392	81,420	60,041	57,195	99,866	4,423
Yellow birch	--	--	--	--	--	--	--	--	--
Hard maple	43,354	--	1,899	8,097	7,801	6,487	5,248	13,822	--
Soft maple	1,077,967	--	230,100	218,186	205,329	175,433	98,307	131,358	19,254
Beech	37,411	--	5,205	5,664	2,157	1,600	10,370	8,927	3,488
Sweetgum	1,489,581	--	351,150	329,016	281,592	214,513	143,474	155,609	14,227
Tupelo and blackgum	4,170,473	--	700,095	801,203	664,449	539,207	429,643	811,806	224,070
Ash	1,026,821	--	209,068	165,916	188,140	164,385	121,696	150,758	26,858
Cottonwood	1,691	--	--	--	--	--	--	1,691	--
Basswood	43,916	--	3,913	12,228	9,213	4,467	10,857	3,238	--
Yellow-poplar	232,549	--	43,336	31,741	48,577	21,752	27,341	55,731	4,071
Bay and magnolia	1,653,103	--	414,630	321,894	291,217	223,252	142,042	226,713	33,355
Black cherry	23,927	--	8,139	9,852	2,156	3,780	--	--	--
Black walnut	--	--	--	--	--	--	--	--	--
Sycamore	34,589	--	4,314	1,937	2,765	11,464	2,928	6,889	4,292
Black locust	--	--	--	--	--	--	--	--	--
Elm	252,309	--	41,605	59,210	54,499	30,123	27,365	35,414	4,093
Other eastern hardwoods	115,603	--	22,535	32,249	17,158	27,141	11,728	4,792	--
Total hardwoods	16,497,975	--	2,830,718	2,824,508	2,642,798	2,112,651	1,670,552	3,162,230	1,254,518
All species	44,867,182	5,991,841	9,399,261	8,549,044	6,484,858	4,565,128	3,166,524	5,059,591	1,650,935

Table 37.--Volume of sawtimber on timberland, by species, size class, and tree grade, Florida, 1987

Species	All size classes					Trees 15.0 inches d.b.h. and larger				
	All grades	Tree grade				All grades	Tree grade			
		1	2	3	4		1	2	3	4
	Thousand board feet									
Softwood										
Yellow pines[a]	19,824,410	5,594,330	4,247,287	9,982,793	--	6,382,963	2,734,715	1,510,540	2,137,708	--
Eastern white pine[b]	--	--	--	--	--	--	--	--	--	--
Spruce and fir[b]	--	--	--	--	--	--	--	--	--	--
Cypress[c]	8,150,920	1,989,756	2,139,992	3,950,811	70,361	3,528,212	1,989,756	1,149,796	369,330	19,330
Other eastern softwoods[b]	393,877	113,877	118,060	148,373	13,567	173,112	77,285	58,525	37,302	--
Total	28,369,207	7,697,963	6,505,339	14,081,977	83,928	10,084,287	4,801,756	2,718,861	2,544,340	19,330
Hardwood[c]										
Select white and red oaks	129,931	35,744	40,966	49,066	4,155	87,164	35,744	27,431	21,361	2,628
Other white and red oaks	5,727,638	1,108,903	1,603,279	2,448,811	566,645	4,282,528	1,108,903	1,413,381	1,443,165	317,079
Hickory	437,112	107,049	155,647	149,369	25,047	302,945	107,049	118,719	62,431	14,746
Yellow birch	--	--	--	--	--	--	--	--	--	--
Hard maple	43,354	--	10,826	18,200	14,328	33,358	--	8,427	15,906	9,025
Sweetgum	1,489,581	290,572	534,486	616,827	47,696	809,415	290,572	333,998	165,134	19,711
Ash, walnut, and black cherry	1,050,748	227,050	318,303	471,104	34,291	657,773	227,050	227,623	187,486	15,614
Yellow-poplar	232,549	56,010	67,634	102,796	6,109	157,472	56,010	56,140	45,322	--
Other eastern hardwoods	7,387,062	1,591,065	2,370,738	3,138,738	286,521	4,512,094	1,591,065	1,725,559	1,062,022	133,448
Total	16,497,975	3,416,393	5,101,879	6,994,911	984,792	10,842,749	3,416,393	3,911,278	3,002,827	512,251
All species	44,867,182	11,114,356	11,607,218	21,076,888	1,068,720	20,927,036	8,218,149	6,630,139	5,547,167	531,581

[a]For yellow pines, tree grade is based on "Southern Pine Tree Grades for Yard and Structural Lumber," Research Paper SE-40, published by the Southeastern Forest Experiment Station, Asheville, NC, 1968. Tree grade 4 does not apply to yellow pine.

[b]For other softwoods (excluding cypress), tree grade is based on "Tree Grades for Eastern White Pine," Research Paper NE-214, published by the Northeastern Forest Experiment Station, Broomall, PA, 1971.

[c]For hardwoods and cypress, tree grades 1, 2, and 3 are based on "Hardwood Tree Grades for Factory Lumber," Research Paper NE-333, published by the Northeastern Forest Experiment Station, Broomall, PA, 1976. Grade 4 trees are sawtimber trees not qualifying as tree Grades 1, 2, or 3. The butt log of these trees qualify as construction (tie and timber) logs based on "A Guide to Hardwood Log Grading (revised)," General Technical Report NE-1, published by the Northeastern Forest Experiment Station, Broomall, PA, 1971.

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Table 38.--Cubic volume in the merchantable saw-log portion of sawtimber trees on timberland, by species and diameter class, Florida, 1987

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand cubic feet								
Softwood									
Longleaf pine	917,792	202,985	291,245	243,378	115,342	40,110	14,691	9,477	564
Slash pine	1,872,566	571,316	482,294	358,079	223,614	129,993	61,576	43,521	2,173
Shortleaf pine	44,694	7,427	8,475	12,119	8,027	3,875	1,575	2,495	701
Loblolly pine	509,790	56,909	75,926	83,174	82,547	76,428	55,729	74,385	4,692
Pond pine	117,507	23,776	31,410	25,259	17,693	7,126	6,765	5,478	--
Virginia pine	--	--	--	--	--	--	--	--	--
Pitch pine	--	--	--	--	--	--	--	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--
Spruce pine	29,730	2,761	3,926	3,473	4,234	5,391	3,395	6,550	--
Sand pine	178,914	66,007	59,548	26,249	16,451	6,997	3,662	--	--
Eastern white pine	--	--	--	--	--	--	--	--	--
Eastern hemlock	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--
Baldcypress	445,139	52,826	59,081	60,406	59,124	52,577	47,404	78,267	35,454
Pondcypress	1,222,253	320,926	302,552	244,840	137,146	85,052	44,664	71,533	15,540
Cedars	72,302	15,218	13,319	14,750	13,436	6,602	4,426	4,551	--
Total softwoods	5,410,687	1,320,151	1,327,776	1,071,727	677,614	414,151	243,887	296,257	59,124
Hardwood									
Select white oaks	21,543	--	2,868	5,402	4,104	3,378	3,030	1,998	763
Select red oaks	2,864	--	--	442	--	445	1,174	803	--
Chestnut oak	--	--	--	--	--	--	--	--	--
Other white oaks	327,012	--	11,690	22,160	29,978	29,440	30,140	109,911	93,693
Other red oaks	694,518	--	129,103	115,455	112,672	80,850	68,431	134,559	53,448
Hickory	82,312	--	11,056	16,516	15,741	11,127	10,220	16,962	690
Yellow birch	--	--	--	--	--	--	--	--	--
Hard maple	8,413	--	383	1,675	1,566	1,259	998	2,532	--
Soft maple	214,165	--	48,214	45,445	41,311	34,081	18,431	23,463	3,220
Beech	8,073	--	1,048	1,194	473	352	2,289	1,957	760
Sweetgum	274,313	--	69,023	63,408	52,079	37,994	24,399	25,294	2,116
Tupelo and blackgum	800,396	--	150,673	166,178	131,944	101,700	78,182	137,895	33,824
Ash	202,783	--	44,773	34,789	37,893	31,731	22,693	26,504	4,400
Cottonwood	280	--	--	--	--	--	--	280	--
Basswood	8,771	--	832	2,566	1,883	869	2,030	591	--
Yellow-poplar	40,884	--	8,399	6,020	8,804	3,727	4,498	8,843	593
Bay and magnolia	337,991	--	86,740	68,815	60,644	45,416	27,951	42,697	5,728
Black cherry	4,805	--	1,720	1,994	411	680	--	--	--
Black walnut	--	--	--	--	--	--	--	--	--
Sycamore	6,385	--	862	394	535	2,164	526	1,204	700
Black locust	--	--	--	--	--	--	--	--	--
Elm	49,470	--	8,547	12,116	10,851	5,806	5,117	6,344	689
Other eastern hardwoods	21,551	--	4,488	6,298	3,266	4,779	1,906	814	--
Total hardwoods	3,106,529	--	580,419	570,867	514,155	395,798	302,015	542,651	200,624
All species	8,517,216	1,320,151	1,908,195	1,642,594	1,191,769	809,949	545,902	838,908	259,748

Table 39.--Total volume of live trees on timberland, by species and diameter class, Florida, 1987

Species	All classes	Diameter class (inches at breast height)											
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand cubic feet												
Softwood													
Longleaf pine	1,414,696	11,797	36,143	74,043	147,247	284,142	363,785	289,086	134,358	46,176	16,626	10,660	633
Slash pine	5,541,851	130,267	549,145	1,207,978	1,258,370	839,624	604,837	424,205	258,361	147,779	69,563	49,290	2,432
Shortleaf pine	72,225	486	2,528	4,594	9,901	10,515	10,703	14,408	9,280	4,413	1,784	2,823	790
Loblolly pine	852,098	15,674	42,382	83,905	89,001	88,241	96,814	99,675	95,846	87,296	63,107	84,874	5,283
Pond pine	211,732	1,545	7,898	18,398	36,037	34,574	40,294	30,198	20,602	8,199	7,733	6,254	--
Virginia pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Pitch pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	46,710	533	1,610	5,693	2,026	4,062	4,990	4,751	5,596	6,178	3,856	7,415	--
Sand pine	642,907	32,374	67,767	158,846	145,253	97,475	77,038	31,782	20,141	8,057	4,174	--	--
Eastern white pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Eastern hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	788,870	6,612	21,565	54,012	74,060	95,518	85,878	82,067	78,590	68,804	60,876	101,840	59,048
Pondcypress	3,254,688	102,835	236,518	502,667	560,996	566,288	452,810	346,038	188,220	117,782	59,786	98,111	22,637
Cedars	135,971	3,994	6,930	11,485	16,894	23,034	19,177	19,176	16,749	7,944	5,231	5,357	--
Total softwoods	12,961,748	306,117	972,486	2,121,621	2,339,785	2,043,473	1,756,326	1,341,386	827,743	502,628	292,736	366,624	90,823
Hardwood													
Select white oaks	50,371	1,175	3,286	4,184	3,764	5,881	5,705	8,223	5,765	4,568	3,993	2,873	954
Select red oaks	5,215	43	--	--	883	423	--	668	--	591	1,569	1,038	--
Chestnut oak	--	--	--	--	--	--	--	--	--	--	--	--	--
Other white oaks	1,168,294	34,511	57,794	70,526	63,663	69,007	69,785	30,178	89,048	91,114	75,802	257,977	208,889
Other red oaks	2,117,993	97,920	141,428	210,883	213,999	250,203	257,242	202,534	185,409	126,920	110,888	226,283	94,284
Hickory	178,019	3,395	7,809	11,876	13,321	14,493	20,760	26,443	23,983	16,587	14,532	23,961	859
Yellow birch	--	--	--	--	--	--	--	--	--	--	--	--	--
Hard maple	22,753	780	792	1,807	2,624	2,064	3,601	2,485	2,165	1,680	1,308	3,447	--
Soft maple	799,816	41,925	71,355	78,388	92,819	102,829	109,602	89,298	78,207	57,681	29,501	43,307	4,904
Beech	16,798	108	659	313	1,446	--	2,076	1,871	1,004	1,141	3,522	3,650	1,008
Sweetgum	740,755	25,832	52,060	68,623	79,950	119,922	117,644	90,764	69,989	48,134	30,258	33,621	3,958
Tupelo and blackgum	2,589,028	124,474	249,885	290,268	309,031	292,051	297,778	274,693	205,916	154,901	116,787	213,289	59,955
Ash	709,395	45,732	80,230	90,668	76,398	90,057	86,757	58,502	59,366	44,395	31,484	37,140	8,666
Cottonwood	889	--	--	--	--	--	--	--	--	--	--	889	--
Basswood	17,538	680	413	806	1,655	1,494	1,558	3,929	2,501	1,268	2,514	720	--
Yellow-poplar	87,110	1,738	3,901	10,907	6,275	7,308	14,378	8,320	12,053	4,529	6,209	10,823	669
Bay and magnolia	1,388,584	84,889	173,205	207,099	188,634	183,603	176,253	115,987	87,405	65,887	40,223	58,310	7,089
Black cherry	31,750	5,154	5,905	4,678	5,104	2,477	3,410	2,880	556	1,586	--	--	--
Black walnut	79	79	--	--	--	--	--	--	--	--	--	--	--
Sycamore	9,599	--	431	--	325	--	1,649	605	723	2,848	666	1,503	849
Black locust	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm	150,095	5,398	12,152	16,193	15,533	20,654	17,675	18,916	17,077	8,558	7,822	9,254	863
Other eastern hardwoods	864,728	158,490	185,696	159,663	114,959	89,535	45,026	35,692	17,432	16,635	12,420	20,054	9,126
Total hardwoods	10,948,809	632,323	1,046,999	1,226,882	1,190,383	1,252,001	1,230,899	1,021,988	858,599	649,023	489,498	948,139	402,075
All species	23,910,557	938,440	2,019,485	3,348,503	3,530,168	3,295,474	2,987,225	2,363,374	1,686,342	1,151,651	782,234	1,314,763	492,898

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Table 40.--Green weight of forest biomass on timberland, by species and diameter class, Florida, 1987

Species	All classes	Diameter class (inches at breast height)											
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Hundred thousand pounds												
Softwood													
Longleaf pine	1,108,675	9,311	30,673	52,439	111,907	220,343	287,125	229,706	107,584	37,130	13,388	8,566	503
Slash pine	4,305,888	96,003	508,830	883,169	961,003	647,856	469,350	329,618	201,105	114,932	53,920	38,245	1,857
Shortleaf pine	50,794	264	1,522	2,893	6,667	7,481	7,717	10,393	6,728	3,233	1,270	2,058	568
Loblolly pine	616,196	7,711	25,085	61,657	67,187	65,772	71,042	73,157	69,744	63,739	45,858	61,414	3,830
Pond pine	150,771	862	4,448	13,175	26,185	24,853	28,942	21,766	14,862	5,802	5,468	4,408	--
Virginia pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Pitch pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	32,302	398	1,465	3,282	1,331	2,755	3,471	3,332	3,976	4,340	2,721	5,231	--
Sand pine	438,088	22,953	55,423	97,373	96,856	66,748	53,783	22,294	14,118	5,684	2,856	--	--
Eastern white pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Eastern hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	591,619	3,729	13,615	27,740	46,171	65,597	63,767	63,683	62,111	55,697	50,062	86,443	53,004
Pondcypress	1,986,987	55,491	148,820	220,054	307,424	346,702	301,125	242,086	136,490	87,704	45,494	76,962	18,635
Cedars	105,926	2,828	4,490	8,773	13,035	17,685	15,380	15,229	13,656	6,175	4,288	4,387	--
Total softwoods	9,387,246	199,550	794,371	1,370,555	1,637,766	1,465,792	1,301,702	1,011,264	630,374	384,436	225,325	287,714	78,397
Hardwood													
Select white oaks	41,639	947	2,481	2,859	3,098	4,877	4,810	6,876	4,845	4,011	3,391	2,591	853
Select red oaks	4,469	33	--	--	687	369	--	581	--	548	1,358	893	--
Chestnut oak	--	--	--	--	--	--	--	--	--	--	--	--	--
Other white oaks	1,063,101	25,786	43,376	40,854	50,936	60,058	63,796	74,756	83,944	87,201	73,004	250,804	208,586
Other red oaks	1,712,209	86,321	107,127	161,076	176,847	204,123	210,508	166,122	152,717	103,946	90,287	180,254	72,881
Hickory	148,074	2,884	6,880	8,176	10,822	11,668	16,800	22,053	20,299	14,164	12,534	21,008	786
Yellow birch	--	--	--	--	--	--	--	--	--	--	--	--	--
Hard maple	20,335	639	655	1,455	2,376	1,825	3,254	2,201	1,939	1,575	1,233	3,183	--
Soft maple	594,062	31,872	50,852	55,601	71,655	78,300	82,071	66,895	58,179	42,806	21,255	31,175	3,401
Beech	13,837	96	582	227	937	--	1,711	1,525	883	1,088	2,952	3,023	810
Sweetgum	541,544	17,179	34,711	45,981	57,401	87,495	87,020	68,372	53,129	36,974	23,623	26,425	3,234
Tupelo and blackgum	1,741,221	82,011	166,720	148,125	188,316	188,237	198,161	191,121	148,592	114,996	90,193	172,158	52,591
Ash	462,395	27,961	50,832	72,732	55,951	60,350	54,618	36,271	35,628	25,609	17,850	20,126	4,467
Cottonwood	723	--	--	--	--	--	--	--	--	--	--	723	--
Sassafras	12,354	442	287	459	1,133	1,022	1,113	2,881	1,762	923	1,820	512	--
Yellow-poplar	61,494	1,295	2,572	6,686	4,335	5,057	10,246	6,080	8,692	3,327	4,615	8,073	516
Bay and magnolia	865,150	52,545	105,041	110,825	116,999	116,031	113,616	76,329	57,958	44,108	27,028	39,693	4,977
Black cherry	20,231	2,586	3,944	2,793	3,380	1,652	2,301	2,004	399	1,172	--	--	--
Black walnut	71	71	--	--	--	--	--	--	--	--	--	--	--
Sycamore	7,094	--	285	--	245	--	1,149	434	528	2,124	513	1,154	662
Black locust	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm	100,235	3,954	8,563	9,931	10,484	13,516	11,622	12,694	11,493	5,833	5,263	6,289	593
Other eastern hardwoods	750,469	135,877	174,693	143,233	103,676	79,051	38,768	27,503	13,544	11,626	7,187	11,240	4,071
Total hardwoods	8,160,707	472,499	759,601	811,013	859,278	913,631	901,564	764,698	654,534	502,031	384,106	779,324	358,428
All species	17,547,953	672,049	1,553,972	2,181,568	2,497,044	2,379,423	2,203,266	1,775,952	1,284,908	886,467	609,431	1,067,038	436,825

Table 41.--Average net annual growth and removals of live timber and growing stock on timberland, by species, Florida, 1980-1986

Species	Live timber[a]		Growing stock	
	Net annual growth	Annual timber removals	Net annual growth	Annual timber removals
	- - - - - Thousand cubic feet - - - - -			
Softwood				
Yellow pines	428,125	443,305	427,177	441,241
Eastern white pine	--	--	--	--
Spruce and fir	--	--	--	--
Cypress	57,888	32,306	57,340	31,872
Other eastern softwoods	3,107	1,130	3,031	1,130
Total softwoods	489,120	476,741	487,548	474,243
Hardwood				
Select white and red oaks	968	821	964	703
Other white and red oaks	56,688	36,223	47,938	28,669
Hickory	2,750	3,145	2,622	2,981
Yellow birch	--	--	--	--
Hard maple	435	--	406	--
Sweetgum	14,533	9,460	14,057	8,946
Ash, walnut, and black cherry	9,919	2,850	8,250	2,374
Yellow-poplar	2,783	1,193	2,736	1,193
Tupelo and blackgum	26,771	12,405	24,844	11,191
Bay and magnolia	25,600	6,565	23,175	5,085
Other eastern hardwoods	24,784	12,866	15,766	5,302
Total hardwoods	165,231	85,528	140,758	66,444
All species	654,351	562,269	628,306	540,687

[a]Merchantable portion only.

Table 42.--Average net annual growth and removals of sawtimber on timberland, by species, Florida, 1980-1986

Species	Net annual growth	Annual timber removals
	Thousand board feet	
Softwood		
Yellow pines	1,249,121	1,158,767
Eastern white pine	--	--
Spruce and fir	--	--
Cypress	235,638	107,499
Other eastern softwoods	13,310	4,205
Total softwoods	1,498,069	1,270,471
Hardwood		
Select white and red oaks	3,808	2,412
Other white and red oaks	186,630	80,125
Hickory	11,068	8,632
Yellow birch	--	--
Hard maple	2,073	--
Sweetgum	56,099	26,591
Ash, walnut, and black cherry	28,174	4,789
Yellow-poplar	7,684	3,878
Tupelo and blackgum	75,800	32,378
Bay and magnolia	62,078	10,182
Other eastern hardwoods	48,627	10,494
Total hardwoods	482,041	179,481
All species	1,980,110	1,449,952

Table 43.--Average annual removals of growing stock on timberland, by species and diameter class, Florida, 1980-1986

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand cubic feet										
Softwood											
Yellow pines	441,241	75,036	118,626	91,808	68,125	41,627	22,222	11,797	6,620	5,241	139
Eastern white pine	--	--	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--
Cypress	31,872	3,299	3,768	6,089	5,157	4,640	3,391	1,814	1,437	2,083	194
Other eastern softwoods	1,130	161	99	275	132	390	73	--	--	--	--
Total softwoods	474,243	78,496	122,493	98,172	73,414	46,657	25,686	13,611	8,057	7,324	333
Hardwood											
Select white and red oaks	703	--	111	99	--	108	101	105	179	--	--
Other white and red oaks	28,669	3,147	4,073	4,479	3,477	3,699	3,353	1,910	1,142	2,320	1,069
Hickory	2,981	253	247	447	663	781	244	85	--	126	135
Yellow birch	--	--	--	--	--	--	--	--	--	--	--
Hard maple	--	--	--	--	--	--	--	--	--	--	--
Sweetgum	8,946	846	1,011	1,173	1,810	1,868	919	214	679	426	--
Ash, walnut, and black cherry	2,374	616	298	366	212	301	80	87	89	325	--
Yellow-poplar	1,193	--	192	205	--	478	200	--	118	--	--
Tupelo and blackgum	11,191	1,309	990	1,284	2,343	1,637	1,095	812	571	1,150	--
Bay and magnolia	5,085	1,085	718	760	979	604	171	263	167	338	--
Other eastern hardwoods	5,302	549	1,131	1,095	828	582	436	97	451	133	--
Total hardwoods	66,444	7,805	8,771	9,908	10,312	10,058	6,599	3,573	3,396	4,818	1,204
All species	540,687	86,301	131,264	108,080	83,726	56,715	32,285	17,184	11,453	12,142	1,537

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Table 44.--Average annual mortality of live timber, growing stock, and sawtimber on timberland, by species, Florida, 1980-1986

Species	Live timber[a]	Growing stock	Sawtimber
	Thousand cubic feet		Thousand board feet
Softwood			
Yellow pines	52,853	51,419	161,946
Eastern white pine	--	--	--
Spruce and fir	--	--	--
Cypress	11,457	10,163	24,037
Other eastern softwoods	833	693	3,085
Total softwoods	65,143	62,275	189,068
Hardwood			
Select white and red oaks	617	371	1,433
Other white and red oaks	33,808	23,592	87,889
Hickory	897	596	2,074
Yellow birch	--	--	--
Hard maple	--	--	--
Sweetgum	5,150	4,411	12,792
Ash, walnut, and black cherry	5,357	2,971	6,835
Yellow-poplar	527	423	1,139
Tupelo and blackgum	10,846	8,519	27,008
Bay and magnolia	15,462	11,292	29,535
Other eastern hardwoods	22,734	7,607	18,346
Total hardwoods	95,398	59,782	187,051
All species	160,541	122,057	376,119

[a]Merchantable portion only.

Table 45.--Change in number of live trees on timberland, by species group, survey completion date, and diameter class, Florida

Species group and year	All classes	Diameter class (inches at breast height)							
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0 and larger
		Thousand trees							
Yellow pine									
1980	2,471,599	786,135	762,024	480,100	224,775	110,118	60,561	28,284	19,602
1987	2,277,233	777,936	647,330	429,137	220,314	97,458	54,748	28,208	22,102
Change	-194,366	-8,199	-114,694	-50,963	-4,461	-12,660	-5,813	-76	+2,500
Other softwood									
1980	967,401	443,066	207,646	128,511	83,821	49,747	26,540	14,413	13,657
1987	843,420	372,471	183,153	111,145	72,940	47,123	25,884	15,093	15,611
Change	-123,981	-70,595	-24,493	-17,366	-10,881	-2,624	-656	+680	+1,954
Hardwood									
1980	4,883,719	3,237,417	881,121	345,331	172,444	100,049	60,786	36,733	49,838
1987	4,391,193	2,793,826	843,727	332,541	167,817	99,909	61,597	35,722	56,054
Change	-492,526	-443,591	-37,394	-12,790	-4,627	-140	+811	-1,011	+6,216

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Table 46.--Land area, by land use class, major forest type, and survey completion date, Florida

Land use class	Survey completion date			Change 1980-1987
	1970	1980	1987	
	Acres			
Forest land				
Timberland:				
Pine and oak-pine types	9,567,984	9,193,657	8,737,336	-456,321
Hardwood types	6,693,255	6,470,520	6,245,271	-225,249
Total	16,261,239	15,664,177	14,982,607	-681,570
Reserved timberland	94,200	411,844	403,569	-8,275
Woodland	1,590,744	1,057,868	1,162,836	+104,968
Total forest land	17,946,183	17,133,889	16,549,012	-584,877
Nonforest land				
Cropland	3,671,347	3,784,515	3,937,202	+152,687
Pasture and range	6,456,018	6,991,503	6,324,067	-667,436
Other	6,464,601	6,622,456	7,721,452	+1,098,996
Total	16,591,966	17,398,474	17,982,721	+584,247
All land[a]	34,538,149	34,532,363	34,531,733	-630

[a]Excludes all water areas.

Table 47.--Volume[a] of sawtimber, growing stock, and live timber on timberland, by species group, survey completion date, and diameter class, Florida

Species group and year	All classes	Diameter class (inches at breast height)								
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0 and larger
SAWTIMBER (in thousand board feet)										
Softwood										
1970	22,132,405	--	--	5,533,035	6,126,719	4,604,060	2,720,746	1,551,291	724,981	871,573
1980	26,627,172	--	--	6,241,833	6,944,109	5,392,841	3,388,148	1,969,022	1,147,485	1,543,734
1987	28,369,207	--	--	5,991,841	6,568,543	5,724,536	3,842,060	2,452,477	1,495,972	2,293,778
Hardwood										
1970	12,166,188	--	--	--	2,173,606	2,322,768	1,971,551	1,634,964	1,224,531	2,838,768
1980	14,162,321	--	--	--	2,505,491	2,689,525	2,162,847	1,839,588	1,444,291	3,520,579
1987	16,497,975	--	--	--	2,830,718	2,824,508	2,642,798	2,112,651	1,670,552	4,416,748
GROWING STOCK (in thousand cubic feet)										
Softwood										
1970	7,688,799	1,238,154	1,492,768	1,561,723	1,401,633	939,529	511,674	277,151	124,991	141,176
1980	9,205,430	1,488,264	1,830,808	1,764,369	1,587,499	1,097,326	637,052	352,487	197,384	250,241
1987	9,304,855	1,425,083	1,838,651	1,675,567	1,478,815	1,140,560	705,641	426,429	249,979	364,130
Hardwood										
1970	4,434,978	420,986	556,699	624,244	674,242	603,887	458,910	349,148	245,354	501,508
1980	5,090,273	484,353	611,944	707,245	777,512	699,063	503,993	393,097	289,838	623,228
1987	5,664,706	540,672	677,818	784,949	816,420	697,151	589,992	439,339	328,373	789,992
LIVE TIMBER[b] (in thousand cubic feet)										
Softwood										
1970	7,820,852	1,274,740	1,523,437	1,585,528	1,414,844	947,648	517,563	278,825	125,872	152,395
1980	9,362,569	1,527,696	1,866,349	1,790,889	1,603,213	1,107,150	644,330	354,501	198,771	269,670
1987	9,438,665	1,449,132	1,867,478	1,699,151	1,491,882	1,148,725	713,043	432,525	252,0[illegible]	384,677
Hardwood										
1970	5,896,135	677,456	800,566	836,197	842,036	735,340	571,585	424,690	312,404	695,861
1980	6,772,216	775,032	881,086	946,714	971,416	850,117	629,355	479,764	370,162	868,570
1987	7,343,195	816,217	920,112	1,008,662	1,009,224	842,419	708,999	536,622	403,257	1,097,683

[a]To provide a basis for valid comparisons, adjustments have been made to allow for differences in volume tables and sawtimber specifications used in previous surveys.

[b]Merchantable volume.

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Forest statistics for Florida, 1987. Resour. Bull. SE-101. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station; 1988. 61 pp.

Since 1980, area of timberland in Florida has decreased by 4 percent to less than 15.0 million acres. Area of nonindustrial private forest land has declined 12 percent to 7.1 million acres. Area harvested and retained in timberland averaged 296,000 acres annually. An average of 272,000 acres regenerated annually, 72 percent of which occurred through artificial methods. The area in pine plantations rose 23 percent to 4.0 million acres. Volume of softwood growing stock increased only 1 percent to 9.3 billion cubic feet, whereas volume of hardwood growing stock increased 11 percent to 5.7 billion cubic feet. Average basal area of live trees 5.0 inches d.b.h. and larger increased from 53 to 55 square feet per acre. Average net annual growth decreased 20 percent to 628 million cubic feet. Softwood removals increased 5 percent to 474 million cubic feet and hardwood removals decreased 25 percent to 66 million cubic feet. Annual mortality was up 16 percent to 122 million cubic feet.

KEYWORDS: Timberland, land use trends, timberland ownership, timber volume, timber growth, timber removals.

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